

=> file registry

FILE 'REGISTRY' ENTERED AT 14:36:38 ON 29 DEC 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

DICTIONARY FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> file caplus

FILE 'CAPLUS' ENTERED AT 14:36:45 ON 29 DEC 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 29 Dec 2005 VOL 144 ISS 1

FILE LAST UPDATED: 28 Dec 2005 (20051228/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.

They are available for your review at:

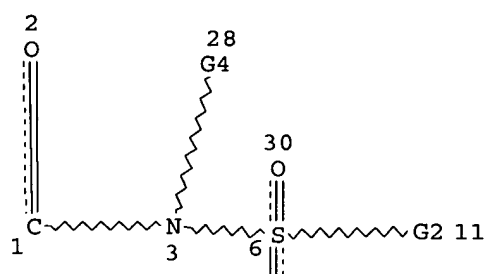
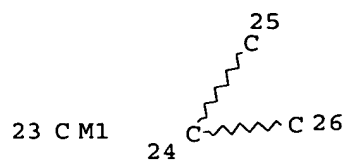
<http://www.cas.org/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d stat que L69

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OR 111-19-3/BI OR 121-44-8/BI OR 147072-47-7/BI OR 157090-59-0/
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L3 STR

C 27



Page 1-A

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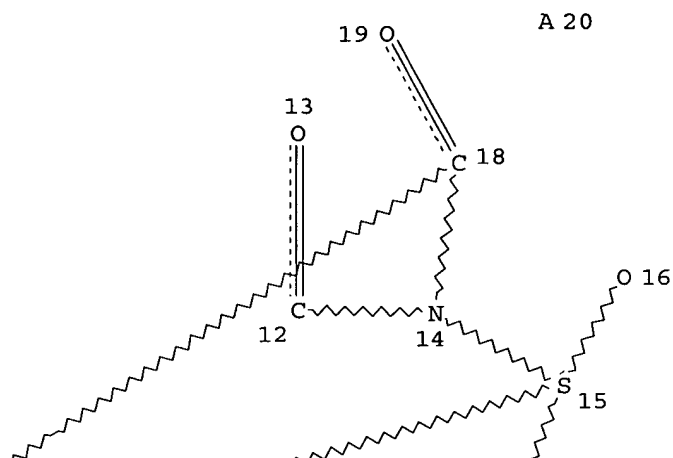
Cy 5

Page 1-B

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29

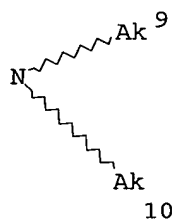
G3 22

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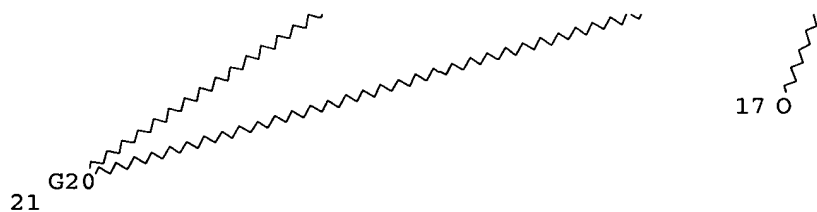


Page 2-A

N 7



Page 2-B



Page 3-A

VAR G2=4/5/7/8

VAR G3=1/12

VAR G4=5/23/24/27

REP G20=(1-5) 20-15 20-18

NODE ATTRIBUTES:

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NSPEC	IS	C	AT	3
NSPEC	IS	C	AT	4
NSPEC	IS	C	AT	5
NSPEC	IS	C	AT	6
NSPEC	IS	R	AT	7
NSPEC	IS	C	AT	8
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NSPEC	IS	C	AT	10
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NSPEC	IS	C	AT	24
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NSPEC	IS	C	AT	26
NSPEC	IS	C	AT	27
NSPEC	IS	C	AT	28
NSPEC	IS	C	AT	29
NSPEC	IS	C	AT	30
CONNECT	IS	E1	RC	AT 16
CONNECT	IS	E1	RC	AT 17
CONNECT	IS	E4	RC	AT 27
DEFAULT MLEVEL IS ATOM				
MLEVEL	IS	CLASS	AT	1 2 3 4 6 8 9 10 12 13 16 17 19 23 24 25 26
				27 29 30
GGCAT	IS	UNS	AT	5
DEFAULT ECLEVEL IS LIMITED				

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L4 9125 SEA FILE=REGISTRY SSS FUL L3
 L7 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
 L11 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
 L13 STR

X 21

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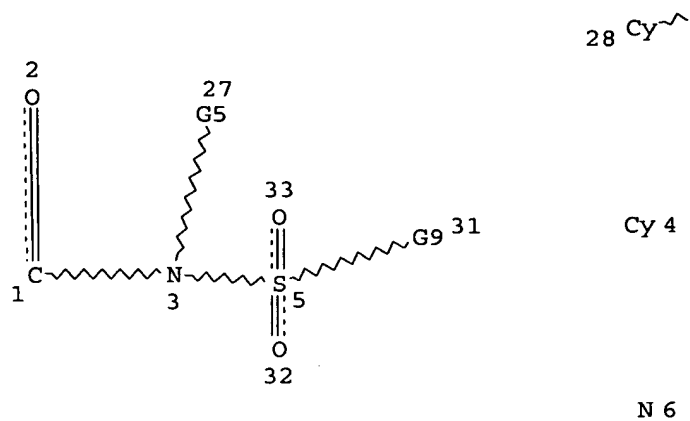
Ak 24
Ak 25
G4
26

Page 1-A

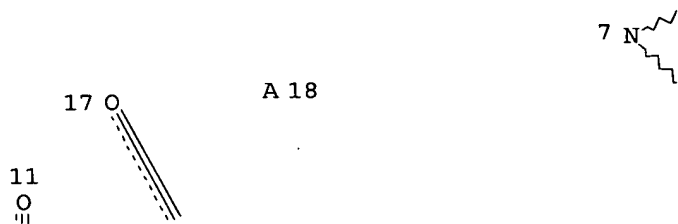
Ak 29

G8 30

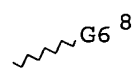
Page 1-B



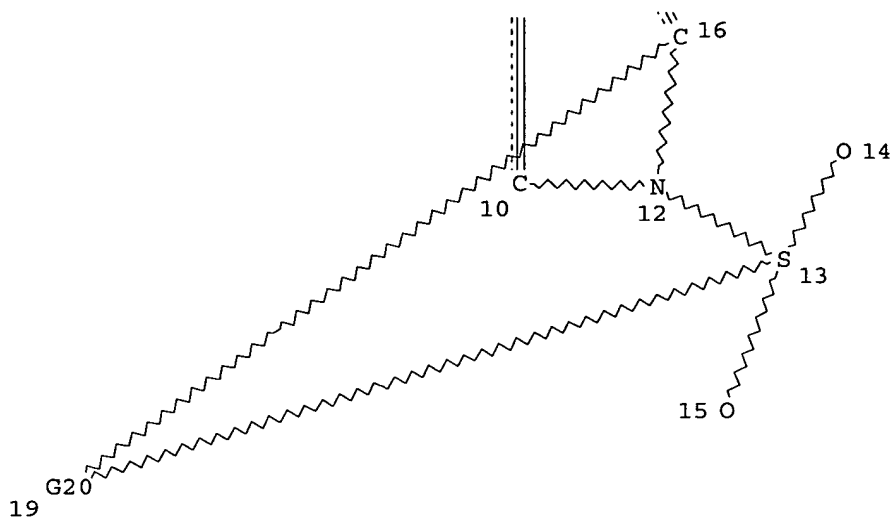
G3 20



Page 2-A



Page 2-B



Page 3-A

VAR G3=1/10

VAR G4=21/23

VAR G5=4/24/25

VAR G6=24/25

VAR G8=21/23/29

VAR G9=4/6/7/24/25/28

REP G20=(1-5) 18-13 18-16

NODE ATTRIBUTES:

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NSPEC	IS C	AT	2
NSPEC	IS C	AT	3
NSPEC	IS C	AT	4
NSPEC	IS C	AT	5
NSPEC	IS R	AT	6
NSPEC	IS C	AT	7
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 CONNECT IS E1 RC AT 4
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 CONNECT IS E1 RC AT 15
 CONNECT IS E1 RC AT 24
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 MLEVEL IS CLASS AT 1 2 3 5 7 10 11 14 15 17 21 22 23 24 25 29 32
 33
 GGCAT IS UNS AT 4
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L15 2986 SEA FILE=REGISTRY SUB=L4 SSS FUL L13
 L19 1085 SEA FILE=REGISTRY SUB=L15 SSS FUL L7
 L21 754 SEA FILE=REGISTRY SUB=L15 SSS FUL L11
 L24 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L26 691 SEA FILE=REGISTRY SUB=L19 SSS FUL L24
 L28 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L30 372 SEA FILE=REGISTRY SUB=L21 SSS FUL L28
 L34 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L36 283 SEA FILE=REGISTRY SUB=L30 SSS FUL L34
 L38 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L40 432 SEA FILE=REGISTRY SUB=L26 SSS FUL L38
 L44 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L46 210 SEA FILE=REGISTRY SUB=L36 SSS FUL L44
 L47 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L49 269 SEA FILE=REGISTRY SUB=L40 SSS FUL L47
 L50 315 SEA FILE=REGISTRY ABB=ON PLU=ON L49 OR L46
 L51 138 SEA FILE=CAPLUS ABB=ON PLU=ON L50

L60 16 SEA FILE=REGISTRY ABB=ON PLU=ON L50 AND L2
 L62 7 SEA FILE=CAPLUS ABB=ON PLU=ON L60
 L69 131 SEA FILE=CAPLUS ABB=ON PLU=ON L51 NOT L62

=> d ibib abs hitstr L69 65-131

L69 ANSWER 65 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:43341 CAPLUS

DOCUMENT NUMBER: 116:43341

TITLE: Cast-coated paper and internally-added
 fluorine-containing surfactants for improving its
 parting from mirror drums

INVENTOR(S): Imai, Tetsuo; Nojima, Kazuhiro; Takahashi, Mikio

PATENT ASSIGNEE(S): Kanzaki Paper Mfg. Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03213595	A2	19910918	JP 1990-10179	19900118
JP 2883139	B2	19990419		

PRIORITY APPLN. INFO.: JP 1990-10179 19900118

OTHER SOURCE(S): MARPAT 116:43341

AB The title surfactants are selected from (A) C4-20 (per)fluorinated alkyl or alkenyl (optionally interrupted with O or bivalent bridge) esters of phosphoric acid or its salts; (B) similar esters of sulfonic acid or its salts, (C) similar esters of carboxylic acid or its salts, and (D) similarly (per)fluorinated alkyl- or alkenyl(quaternary ammonium) compds. A typical parting aid surfactant such as C8F17SO2N(Pr)C2H4OP(O)(OH)2 was incorporated at 0.5% (based on total pigments) level to a casein-SBR latex-based coating on paper, and showed continuation of smooth sheet parting in an ordering cast coating process for >12 h.

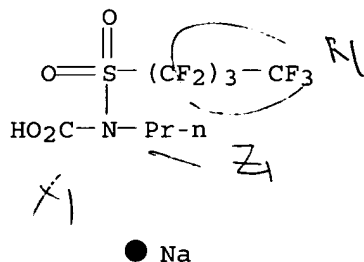
IT 138473-78-6

RL: USES (Uses)

(parting agents, for cast coating compns. on paper)

RN 138473-78-6 CAPLUS

CN Carbamic acid, [(nonafluorobutyl)sulfonyl]propyl-, sodium salt (9CI) (CA INDEX NAME)

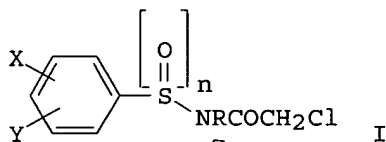


L69 ANSWER 66 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:607678 CAPLUS

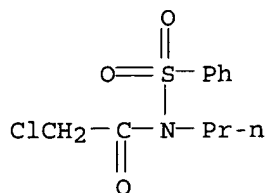
DOCUMENT NUMBER: 115:207678
 TITLE: Preparation of N-(phenylsulfenyl)-2-chloroacetamides as herbicides
 INVENTOR(S): Hashimoto, Isao; Tsuru, Kazutaka; Ishida, Tatsuyoshi
 PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan
 SOURCE: Can. Pat. Appl., 21 pp.
 CODEN: CPXXEB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2030001	AA	19910517	CA 1990-2030001	19901114
JP 03157360	A2	19910705	JP 1989-296213	19891116
EP 432471	A1	19910619	EP 1990-121613	19901112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
HU 55599	A2	19910628	HU 1990-7153	19901115
PRIORITY APPLN. INFO.:			JP 1989-296213	A 19891116
OTHER SOURCE(S):	MARPAT 115:207678			
GI				

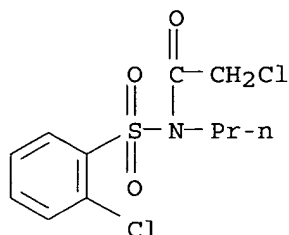


AB N-Phenylsulfenyl-2-chloroacetamides and analogs I [n = 0-2; R = H, lower (halo)alkyl, cycloalkylmethyl, (substituted) benzyl, lower alkoxyalkyl, tetrahydrofurfuryl, alkoxycarbonylmethyl, dialkylaminoethyl; X, Y = H, halo, lower alkyl, lower alkoxy, CF₃, NO₂; R ≠ H when one of X, Y = p-NO₂ and the other is H] were prepared as herbicides. Thus, 3,4-dichlorophenylsulfenyl chloride in CH₂Cl₂ was added at 21° to a solution of ClCH₂CONH₂, pyridine and CH₂Cl₂. The temperature rose to 33° during addition and the mixture was stirred 4 h at 33-35° to give title compound I (n = 0, R = H, X = 3-Cl, Y = 4-Cl) in 60% yield. In a herbicidal test against barnyard grass, 22 title compds. showed 100% control.

IT 136941-39-4P 136941-40-7P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)
 RN 136941-39-4 CAPLUS
 CN Acetamide, 2-chloro-N-(phenylsulfonyl)-N-propyl- (9CI) (CA INDEX NAME)



RN 136941-40-7 CAPLUS
 CN Acetamide, 2-chloro-N-[(2-chlorophenyl)sulfonyl]-N-propyl- (9CI) (CA INDEX NAME)



L69 ANSWER 67 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:553116 CAPLUS
 DOCUMENT NUMBER: 115:153116
 TITLE: Preparation of fluoroethylsulfonamides as insecticides and acaricides.
 INVENTOR(S): Mori, Kaoru; Komata, Takeo; Tamai, Ryoichi; Murakami, Kazuko; Tada, Osamu; Koyasu, Hideo; Matsubuchi, Sadayuki; Fujisawa, Toyoichi
 PATENT ASSIGNEE(S): Central Glass Co., Ltd., Japan; Kumiai Chemical Industry Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03068550	A2	19910325	JP 1989-206276	19890809
PRIORITY APPLN. INFO.:			JP 1989-206276	19890809

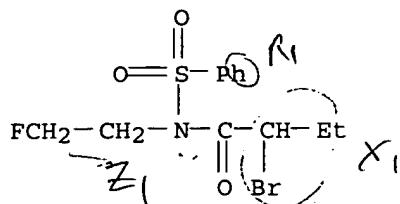
OTHER SOURCE(S): MARPAT 115:153116

AB R1SO2NR2CH2CH2F [I; R1 = C1-4 alkyl, haloalkyl, thienyl, C6H4Xm; R2 = C1-4 alkyl, alkynyl, haloalkyl, cycloalkyl, OCH2Ph, SO2Ph, COR3; R3 = C1-6 alkyl, alkynyl, haloalkyl, (haloalkyl)cycloalkyl, (halo)benzyl, C1-6 alkoxy, alkenyloxy, OPh, NHPh, (halo)pyridyl, naphthyl, furyl, C6H4Yn; X = H, halo, C1-4 alkyl, haloalkyl, alkoxy, nitro, cyano; Y = X, amino; m, n = 1-2] are prepared as insecticides or acaricides. N-(2-Fluoroethyl)-3-toluenesulfonamide (preparation given) in THF was treated with NaH at room temperature for 1 h, mixed with BzCl, and stirred at room temperature overnight to give 76.4% I (R1 = 3-MeC6H4, R2 = Bz), which was applied to cucumber at 4 ppm to control Aphis gossypii with 100% mortality.

IT 136160-59-3P 136161-05-2P 136161-06-3P
 136161-17-6P 136161-20-1P 136161-21-2P
 136161-22-3P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide and acaricide)

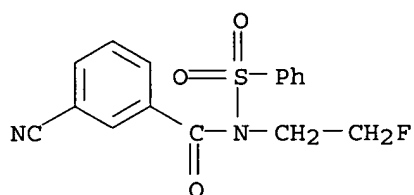
RN 136160-59-3 CAPLUS
 CN Butanamide, 2-bromo-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX

NAME)



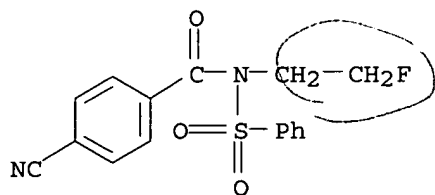
RN 136161-05-2 CAPLUS

CN Benzamide, 3-cyano-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



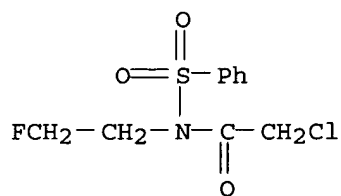
RN 136161-06-3 CAPLUS

CN Benzamide, 4-cyano-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



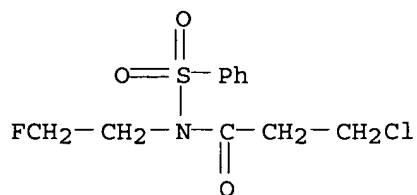
RN 136161-17-6 CAPLUS

CN Acetamide, 2-chloro-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

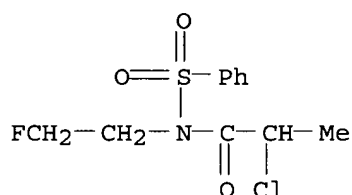


RN 136161-20-1 CAPLUS

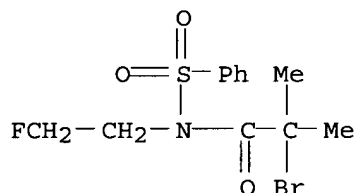
CN Propanamide, 3-chloro-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 136161-21-2 CAPLUS
 CN Propanamide, 2-chloro-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 136161-22-3 CAPLUS
 CN Propanamide, 2-bromo-N-(2-fluoroethyl)-2-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



L69 ANSWER 68 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:491759 CAPLUS
 DOCUMENT NUMBER: 115:91759
 TITLE: New methods for the synthesis of N-acylsulfonamides
 AUTHOR(S): Lukanov, L. K.; Venkov, A. P.
 CORPORATE SOURCE: Bulg.
 SOURCE: Nauchni Trudove - Plovdivski Universitet Paisii
 Khilendarski (1989), Volume Date 1988, 26(5, Khim.),
 23-35
 CODEN: NTPUB6; ISSN: 0369-6227
 DOCUMENT TYPE: Journal
 LANGUAGE: Bulgarian
 OTHER SOURCE(S): CASREACT 115:91759

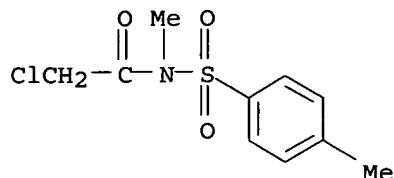
AB Acylating RSO₂NHR₁ [I; R = Ph, 4-tolyl, PhCH₂, 4-ClC₆H₄; R₁ = CH₂CH₂C₆H₃(OMe)_{2-3,4}, CH₂Ph, CH₂C₆H₄Cl-4, CH₂CH₂Ph, Me, H] with R₂CO₂H [R₂ = Me, Ph, ClCH₂, 3,4-(MeO)₂C₆H₃CH₂] in refluxing CH₂Cl₂ containing PCl₃ or SOCl₂ gave 16 RSO₂NR₁COR₂ (II) in 50-88% yield. I (R = same aryl; R₁ = Ph, C₆H₄Cl-4, C₆H₄OMe-4, 2,6-xylyl, C₆H₃EtMe-2,6, C₆H₃Et₂-2,6) were acetylated with refluxing 20:1 Ac₂O-HCO₂H to give 10 corresponding II in 71-97% yield.

IT 38994-94-4P 135489-94-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

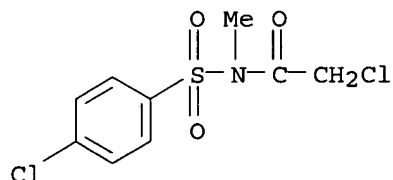
RN 38994-94-4 CAPLUS

CN Acetamide, 2-chloro-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA
INDEX NAME)



RN 135489-94-0 CAPLUS

CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-methyl- (9CI) (CA
INDEX NAME)



L69 ANSWER 69 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:491333 CAPLUS

DOCUMENT NUMBER: 115:91333

TITLE: Palladium catalyzed tandem cyclization-anion capture
processes initiated by alkyl- and π -allyl-palladium
species

AUTHOR(S): Grigg, Ronald; Sukirthalingam, Sukanthini; Sridharan,
Visuvanathar

CORPORATE SOURCE: Sch. Chem., Leeds Univ., Leeds, LS2 9JT, UK

SOURCE: Tetrahedron Letters (1991), 32(22), 2545-8

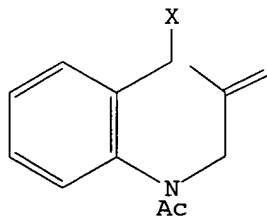
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

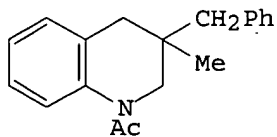
LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:91333

GI



I



II

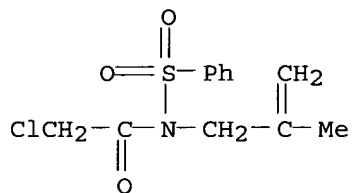
AB Palladium-catalyzed tandem cyclization-anion capture processes initiated by oxidative addition of benzylic or allylic halides or acetates to Pd occur regio- and stereospecifically in good yield. Examples of anion capture involving formate (H-) and organotin, -zinc, and -boron species are described. Thus, treatment of benzylic halides I (X = Cl and Br) with NaBPh₄ in the presence of Pd acetate afforded 69% cyclization product II.

IT 134836-70-7 134836-80-9 134855-36-0

RL: RCT (Reactant); RACT (Reactant or reagent)
(attempted cyclization-anion capture reaction of)

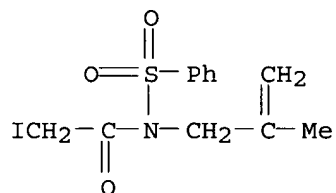
RN 134836-70-7 CAPLUS

CN Acetamide, 2-chloro-N-(2-methyl-2-propenyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



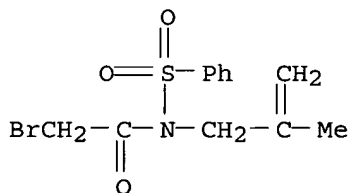
RN 134836-80-9 CAPLUS

CN Acetamide, 2-iodo-N-(2-methyl-2-propenyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 134855-36-0 CAPLUS

CN Acetamide, 2-bromo-N-(2-methyl-2-propenyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



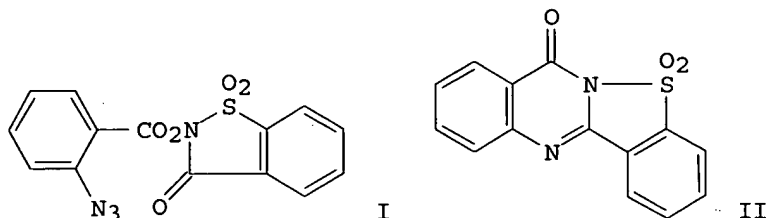
L69 ANSWER 70 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:122256 CAPLUS

DOCUMENT NUMBER: 114:122256

TITLE: Heterocycles by intramolecular aza-Wittig reactions of iminophosphoranes obtained from 2-azidobenzoyl- and 2-azidobenzylidene derivatives

AUTHOR(S): Luheshi, Abdul Bassett N.; Salem, Salem M.; Smalley, Robert K.; Kennewell, Peter D.; Westwood, Robert
 CORPORATE SOURCE: Dep. Chem. Appl. Chem., Univ. Salford, Salford, M5 4WT, UK
 SOURCE: Tetrahedron Letters (1990), 31(45), 6561-4
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 114:122256
 GI



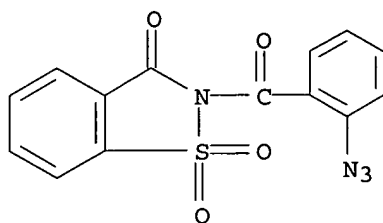
AB The use of iminophosphoranes in intramol. aza-Wittig reactions to prepare pyrrolo[1,2-a]benzimidazoles, fused quinazolinones, quinolines, and an isoindolo[1,3,4]benzotriazepinone is reported. Thus, (azidobenzoyl)oxobenzoisothiazoline dioxide I was treated with (EtO)₃P to give 88% oxobenzoisothiazoloquinazoline dioxide II.

IT 132416-64-9P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (generation of iminophosphorane and intramol. aza-Wittig reaction of)

RN 132416-64-9 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-azidobenzoyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 71 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:108609 CAPLUS

DOCUMENT NUMBER: 112:108609

TITLE: Electrophotography-type lithographic master plates

INVENTOR(S): Kato, Eiichi; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01114861	A2	19890508	JP 1987-270309	19871028
PRIORITY APPLN. INFO.:			JP 1987-270309	19871028

AB In the lithog. master plates using electrophotog. photoreceptors comprising a conductive support and ≥ 1 layers containing ZnO and a binder resin, the binder resin has substituent groups of the formulas CONRSO₂R₁ and/or CONR₂OSO₂R₃ (R, R₂ = H, aliphatic; R₁, R₃ = aliphatic, aryl). The lithog. master plates show improved electrostatic properties and stain-free background. Thus, a support was coated with a composition containing Bu

methacrylate-CH₂:CMeCONHSO₂C₆H₁₃ copolymer, acrylic acid-Et methacrylate copolymer, ZnO, rose bengal, and phthalic anhydride to give a photoreceptor. Resulting master plates for offset printing gave 104 good prints.

IT 125566-77-0 125566-79-2

RL: USES (Uses)

(binder, electrophotog.-type lithog. master plate photoconductive layer containing, for good electrostatic properties and stain-free background)

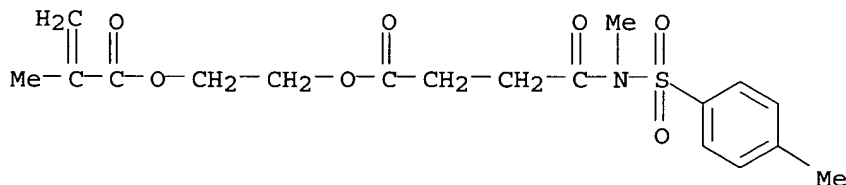
RN 125566-77-0 CAPLUS

CN Butanoic acid, 4-[methyl[(4-methylphenyl)sulfonyl]amino]-4-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 125566-76-9

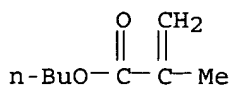
CMF C18 H23 N O7 S



CM 2

CRN 97-88-1

CMF C8 H14 O2

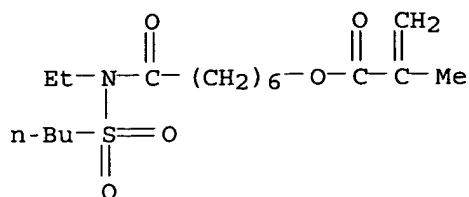


RN 125566-79-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 7-[(butylsulfonyl)ethylamino]-7-oxoheptyl ester, polymer with phenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

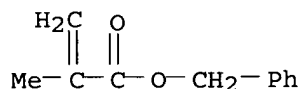
CM 1

CRN 125566-78-1
CMF C17 H31 N O5 S

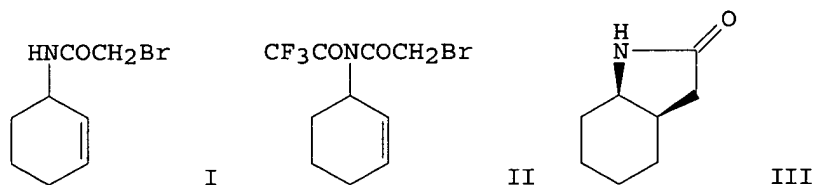


CM 2

CRN 2495-37-6
CMF C11 H12 O2

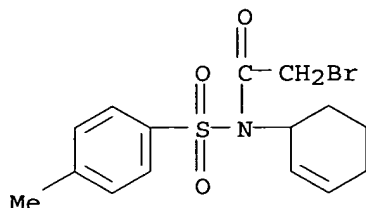


L69 ANSWER 72 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:55537 CAPLUS
DOCUMENT NUMBER: 112:55537
TITLE: Radical cyclization of allylic haloacetamides. A route to cis-fused 2-pyrrolidones and piperidones
AUTHOR(S): Stork, Gilbert; Mah, Robert
CORPORATE SOURCE: Dep. Chem., Columbia Univ., New York, NY, 10027, USA
SOURCE: Heterocycles (1989), 28(2), 723-7
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:55537
GI



AB N-Protected allylic haloacetamides undergo radical cyclization to produce N-protected lactams. Thus, cyclohexenyl bromoacetamide I was treated with (F₃CCO)₂O in the presence of poly(4-vinylpyridine) to give 95% bromo imide II, which was cyclized by treatment with Bu₃SnH-AIBN in C₆H₆ and deprotected with aqueous KF to give the fused pyrrolidone III in 80-90% yield from I. A small quantity of debrominated I was also obtained.

IT 124706-15-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and radical cyclization of)
 RN 124706-15-6 CAPLUS
 CN Acetamide, 2-bromo-N-2-cyclohexen-1-yl-N-[(4-methylphenyl)sulfonyl]- (9CI)
 (CA INDEX NAME)



L69 ANSWER 73 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:622010 CAPLUS
 DOCUMENT NUMBER: 111:222010
 TITLE: Antistatic photographic recording materials
 INVENTOR(S): Hesse, Konrad; Oezelsel, Mehmet Oezbay
 PATENT ASSIGNEE(S): Du Pont de Nemours (Deutschland) G.m.b.H., Fed. Rep.
 Ger.
 SOURCE: Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 319951	A1	19890614	EP 1988-120443	19881207

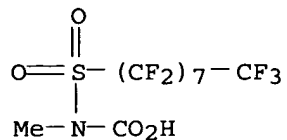
R: BE, CH, DE, ES, FR, GB, IT, LI, SE
 PRIORITY APPLN. INFO.: DE 1987-3741355 A 19871207
 AB Triboelec. charge formation in photog. materials for use in mech.
 transport apparatus is decreased by using a combination of a F-containing
 anionic
 surfactant, a nonionic surfactant with oxyalkyl units, and a nonionic
 surfactant with oxyalkyl units and F groups in the coatings of the
 materials. Thus, a double-sided radiog. film with C8F17SO3-H.N+Et4 and
 C10H21SO2NHCH2CO2K in the gelatin-Ag(Br,I) emulsion layer and
 C8F17(CH2CH2O)6H in the protective layer was tested in a transport apparatus
 with hard rubber and eloxated Al rollers to show a low triboelec.
 charging.

IT 123748-42-5
 RL: USES (Uses)
 (surfactant, photog. materials containing, for improved antistatic
 properties)
 RN 123748-42-5 CAPLUS
 CN Carbamic acid, [(heptadecafluorooctyl)sulfonyl]methyl-, polymer with
 1,4-butanediol, α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) and
 α -hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA
 INDEX NAME)

CM 1

CRN 123748-41-4

CMF C10 H4 F17 N O4 S

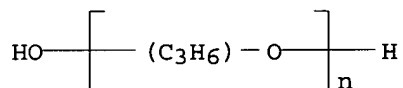


CM 2

CRN 25322-69-4

CMF (C3 H6 O)_n H2 O

CCI IDS, PMS

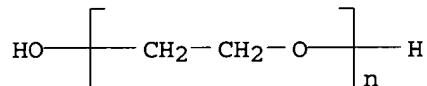


CM 3

CRN 25322-68-3

CMF (C2 H4 O)_n H2 O

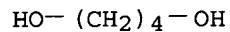
CCI PMS



CM 4

CRN 110-63-4

CMF C4 H10 O2



L69 ANSWER 74 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:115117 CAPLUS

DOCUMENT NUMBER: 110:115117

TITLE: Preparation of dialkyl aminomethanephosphonate derivatives as herbicide intermediates

INVENTOR(S): Corbet, Jean Pierre; Mulhauser, Michel

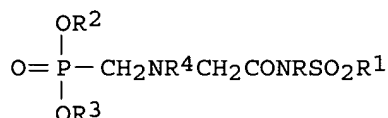
PATENT ASSIGNEE(S): Rhone-Poulenc Agrochimie, Fr.

SOURCE: Fr. Demande, 11 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2608609	A1	19880624	FR 1986-18308	19861218
FR 2608609	B1	19890602		
IL 84482	A1	19921115	IL 1987-84482	19871116
AU 8782618	A1	19880623	AU 1987-82618	19871216
AU 599729	B2	19900726		
CA 1297493	A1	19920317	CA 1987-554483	19871216
DK 8706650	A	19880619	DK 1987-6650	19871217
CN 87105951	A	19880629	CN 1987-105951	19871217
JP 63165391	A2	19880708	JP 1987-320034	19871217
BR 8706887	A	19880726	BR 1987-6887	19871217
EP 275804	A1	19880727	EP 1987-420345	19871217
EP 275804	B1	19911002		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8709478	A	19880727	ZA 1987-9478	19871217
DD 264921	A5	19890215	DD 1987-310642	19871217
HU 48634	A2	19890628	HU 1987-5755	19871217
HU 202881	B	19910429		
AT 67998	E	19911015	AT 1987-420345	19871217
PRIORITY APPLN. INFO.:			FR 1986-18308	A 19861218
			EP 1987-420345	A 19871217
OTHER SOURCE(S):		MARPAT 110:115117		
GI				



I

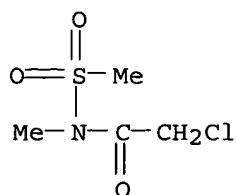
AB The title compds. I [R1 = hydrocarbyl, especially (substituted) alkyl, aryl, cycloalkyl; R = H, R1, C1-4 alkyl; R2, R3 = (substituted) alkyl, aryl, aralkyl, or R2R3 = divalent entity; R4 = ArR5R6C; Ar = (substituted) aromatic group; R5, R6 = H, alkyl, etc.], useful as intermediates for herbicides, were prepared. A mixture of diisopropyl N-benzylaminomethanephosphonate and N-methyl-N-methylsulfonylchloroacetamide was heated at 80° to give 92.4% I (R2 = R3 = CHMe2, R4 = PhCH2, R = R1 = Me).

IT **38994-88-6**

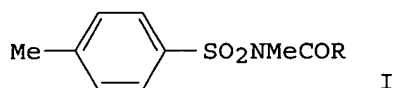
RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of herbicide intermediate)

RN 38994-88-6 CAPLUS

CN Acetamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



L69 ANSWER 75 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:63579 CAPLUS
 DOCUMENT NUMBER: 110:63579
 TITLE: Prodrug forms for the sulfonamide group. II.
 Water-soluble amino acid derivatives of
 N-methylsulfonamides as possible prodrugs
 AUTHOR(S): Larsen, Jorn Drustrup; Bundgaard, Hans; Lee, Vincent
 H. L.
 CORPORATE SOURCE: Dep. Pharm. Chem., R. Dan. Sch. Pharm., Copenhagen,
 Den.
 SOURCE: International Journal of Pharmaceutics (1988),
 47(1-3), 103-10
 CODEN: IJPHDE; ISSN: 0378-5173
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



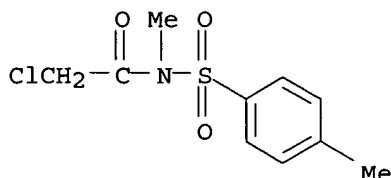
AB Various N-acyl derivs. (I, R = Me, Ph, CH₂NEt₂, or morpholinomethyl) of the model sulfonamide N-methyl-p-toluenesulfonamide were synthesized and evaluated as potential prodrug forms for the sulfonamide group occurring in e.g. carbonic anhydrase inhibitors. The kinetics of hydrolysis of the derivs. were determined at 37° in the pH range 0-12 and in the presence of human plasma. Maximum stability was achieved at pH .apprx.4. The N-acyl compds. were readily hydrolyzed enzymically to yield the parent sulfonamide in quant. amts. The derivs. with an ionizable amino function in the acyl moiety possess a high water-solubility as well as adequate lipophilicity at physiol. pH. Since various N-methylsulfonamides are known to undergo demethylation in vivo, a promising prodrug approach for a primary sulfonamide may be N-acylation of the corresponding N-methylsulfonamide.

IT 38994-94-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and amine substitution of)

RN 38994-94-4 CAPLUS

CN Acetamide, 2-chloro-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA
 INDEX NAME)

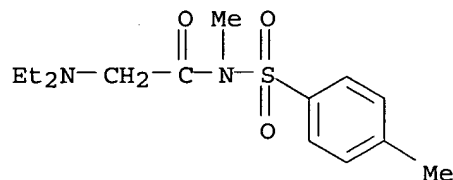


IT 118625-26-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and hydrolysis and lipophilicity of, as prodrug)

RN 118625-26-6 CAPLUS

CN Acetamide, 2-(diethylamino)-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI)
(CA INDEX NAME)

L69 ANSWER 76 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:57390 CAPLUS

DOCUMENT NUMBER: 110:57390

TITLE: Synthesis and biological activity of some new xanthotoxin derivatives

AUTHOR(S): El-Sharief, A. M. Sh.; Bedair, A. H.; El-Maghraby, A. A.; Ammar, Y. A.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

SOURCE: Journal of the Indian Chemical Society (1988), 65(6), 422-6

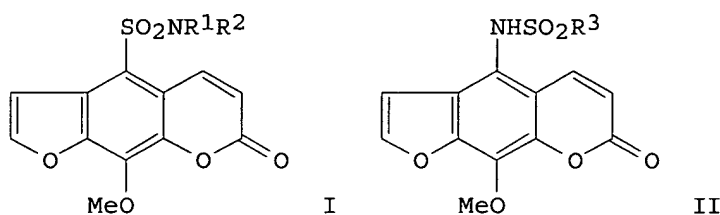
CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:57390

GI



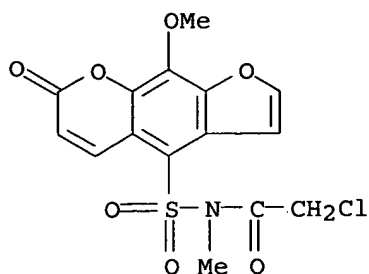
AB A xanthotoxinsulfonyl chloride was treated with amines to give sulfonamides I ($R_1 = \text{H, acyl, alkyl}$; $R_2 = \text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$, substituted sulfamoylphenyl, $\text{C}_6\text{H}_4\text{CO}_2\text{H}$, carbalkoxyphenyl, substituted carbamoylphenyl, $\text{C}_6\text{H}_4\text{OH}$, alkoxyphenyl, acyloxyphenyl, H, alkyl, acyl , substituted anilinophenyl, heteroaryl). Also prepared were aminoxanthotoxin derivs. II [$R_3 = \text{C}_6\text{H}_4\text{CO}_2\text{H, C}_6\text{H}_3(\text{CO}_2\text{H})\text{OH, C}_6\text{H}_4\text{NHAc}$]. Some I and II showed bactericidal activity.

IT 92831-61-3P 92831-63-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

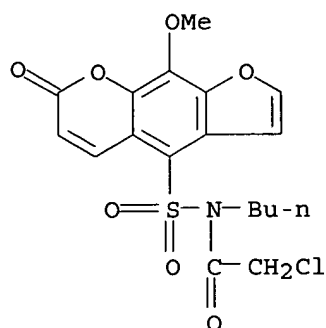
RN 92831-61-3 CAPLUS

CN Acetamide, 2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 92831-63-5 CAPLUS

CN Acetamide, N-butyl-2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L69 ANSWER 77 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:488080 CAPLUS

DOCUMENT NUMBER: 109:88080

TITLE: The herbicidal activity of 1-substituted 1-phenylureas

AUTHOR(S): Barnes, Keith F.; Browning, Ian R.; Clark, Nigel G.

CORPORATE SOURCE: Wye Coll., Univ. London, Ashford/Kent, TN25 5AH, UK

SOURCE: Pesticide Science (1988), 23(1), 83-91

CODEN: PSSCBG; ISSN: 0031-613X

DOCUMENT TYPE: Journal

LANGUAGE: English

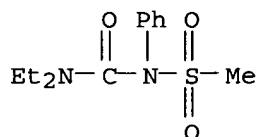
AB A selection of 1,1-dialkyl-3-phenylureas, addnl. substituted in the 3-position by methanesulfonyl, cyano, alkoxycarbonyl or Me, were synthesized and assessed for pre- and post-emergence herbicidal activity against a variety of monocotyledonous and dicotyledonous weed species. The range of activities is compared with those of the structurally-related com. herbicides, fenuron, monuron and diuron, into which the novel compds. could be metabolized (lethal synthesis).

IT 115956-28-0P 115973-65-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and herbicidal activity of)

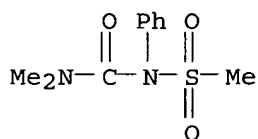
RN 115956-28-0 CAPLUS

CN Methanesulfonamide, N-[(diethylamino)carbonyl]-N-phenyl- (9CI) (CA INDEX NAME)



RN 115973-65-4 CAPLUS

CN Methanesulfonamide, N-[(dimethylamino)carbonyl]-N-phenyl- (9CI) (CA INDEX NAME)



L69 ANSWER 78 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:119415 CAPLUS

DOCUMENT NUMBER: 106:119415

TITLE: Alkyl shifts in 1,4-dipoles from tosyl
iso(thio)cyanate and imido(thio)carbonates or isoureas
AUTHOR(S): Schaumann, Ernst; Dietz, Joerg; Kausch, Erwin;
Schmerse, Gerd C.

CORPORATE SOURCE: Inst. Org. Chem., Univ. Hamburg, Hamburg, D-2000/13,
Fed. Rep. Ger.

SOURCE: Chemische Berichte (1987), 120(3), 339-44
CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:119415

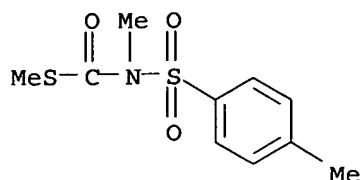
AB Alkyl shifts from O to N are observed in dipoles from tosyl isocyanate (TosNCO) and imido(thio)carbonates $\text{RN}:\text{C}(\text{OR}_1)\text{XR}_2$ (I; X = O, R = Me, Ph, cyclohexyl, R1, R2 = Me, Et, Ph; X = S, R = Me, R1, R2 = Me, Et) to give (thio)allophanates $\text{TosNR}_1\text{CONRC}(\text{O})\text{XR}_2$. Similarly, addition of TosNCS to $\text{MeN}:\text{C}(\text{OMe})\text{NMe}_2$ afforded $\text{TosN}:\text{C}(\text{SMe})\text{NMeCONMe}_2$, the product of an O → S shift. A crossover experiment involving TosNCO and I (R = Me, R1 = Me, R2 = Et; R1 = Et; R2 = Me) gave four products $\text{TosNR}_1\text{CONMeC}(\text{O})\text{SR}_2$, proving the intermol. nature of the rearrangement. However, reactions of TosNCO and isoureas or TosNCS and I stopped short at the dipole stage.

IT 106115-22-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 106115-22-4 CAPLUS

CN Carbamothioic acid, methyl[(4-methylphenyl)sulfonyl]-, S-methyl ester
(9CI) (CA INDEX NAME)



L69 ANSWER 79 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1987:84842 CAPLUS
 DOCUMENT NUMBER: 106:84842
 TITLE: N-sulfonyl-N-(phosphonomethylglycyl)amines
 INVENTOR(S): Veracini, Serge; Bres, Herve
 PATENT ASSIGNEE(S): Rhone Poulenc Agrochimie, Fr.
 SOURCE: Fr. Demande, 7 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2575161	A1	19860627	FR 1984-20151	19841226
FR 2575161	B1	19890331		
FI 8505066	A	19860627	FI 1985-5066	19851218
AU 8551519	A1	19860703	AU 1985-51519	19851220
AU 573410	B2	19880609		
ZA 8509769	A	19860924	ZA 1985-9769	19851220
CA 1244461	A1	19881108	CA 1985-498283	19851220
DK 8506035	A	19860627	DK 1985-6035	19851223
NO 8505244	A	19860627	NO 1985-5244	19851223
HU 39751	A2	19861029	HU 1985-4956	19851223
HU 199855	B	19900328		
DD 251135	A5	19871104	DD 1985-285097	19851223
JP 61158991	A2	19860718	JP 1985-291796	19851224
EP 189725	A1	19860806	EP 1985-420242	19851224
EP 189725	B1	19890308		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
BR 8506478	A	19860902	BR 1985-6478	19851224
AT 41153	E	19890315	AT 1985-420242	19851224
IL 77445	A1	19890910	IL 1985-77445	19851224
CN 85109729	A	19860709	CN 1985-109729	19851225
ES 550424	A1	19870601	ES 1985-550424	19851226
PRIORITY APPLN. INFO.:			FR 1984-20151	A 19841226
			EP 1985-420242	A 19851224

OTHER SOURCE(S): CASREACT 106:84842

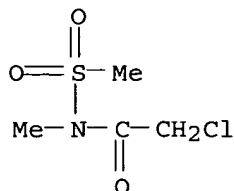
AB (R2O)(R3O)P(O)CH2NR4CH2CONR5(SO2R1) [I; R1 = (substituted)hydrocarbyl; R2, R3 = (substituted) alkyl, aryl or aralkyl; R4 = (substituted) aralkyl; R5 = H, hydrocarbyl], useful as herbicides (no data), are prepared Thus, 7.78 mmol (EtO)2P(O)CH2NHCH2Ph in MeCN was treated with 7.78 mmol ClCH2CONMe(SO2Me) at 80° in the presence of K2CO3 to give 60% I (R1 = R5 = Me, R2 = R3 = Et, R4 = CH2Ph).

IT **38994-88-6**

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with phosphonomethylbenzylamine)

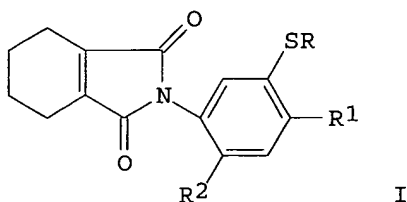
RN 38994-88-6 CAPLUS

CN Acetamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



L69 ANSWER 80 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:442641 CAPLUS
 DOCUMENT NUMBER: 105:42641
 TITLE: Herbicidal tetrahydrophthalimides
 INVENTOR(S): Naohara, Tetsuo; Natsume, Fumitsugu; Yotsuya, Toyohiko; Suzuki, Shigeru; Suzuki, Seiichi; Ikeda, Osamu
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61040261	A2	19860226	JP 1984-162014	19840801
PRIORITY APPLN. INFO.: GI			JP 1984-162014	19840801



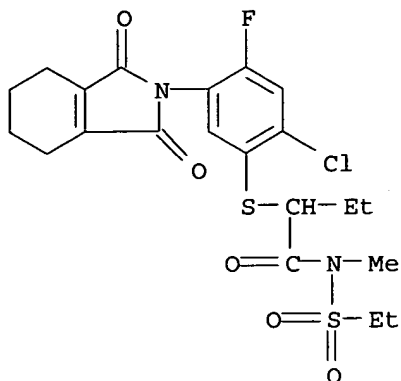
AB Title compds. I (R = H, haloalkyl, cyanoalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, alkoxyalkoxyalkoxyalkyl, etc.; R1 = halo; R2 = H, halo) were prepared Thus, refluxing 5.23 g 4-chloro-2-fluoro-5-[1-(dimethylcarbamoyl)propylthio]aniline with 3.01 g 3,4,5,6-tetrahydrophthalic anhydride in HOAc for 3 h gave 6.59 g I (R = Me2NCOCH2, R1 = Cl, R2 = F). The latter compound showed herbicidal activity at 2.5 g/are.

IT **103087-68-9P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 103087-68-9 CAPLUS

CN Butanamide, 2-[[2-chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-

isoindol-2-yl)phenyl]thio]-N-(ethylsulfonyl)-N-methyl- (9CI) (CA INDEX NAME)



L69 ANSWER 81 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:424260 CAPLUS

DOCUMENT NUMBER: 105:24260

TITLE: Acylated saccharin derivatives.

INVENTOR(S): Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuehle, Engelbert; Fuehrer, Wolfgang; Haenssler, Gerd; Brandes, Wilhelm; Reinecke, Paul Dr

PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.

SOURCE: Ger. Offen., 35 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

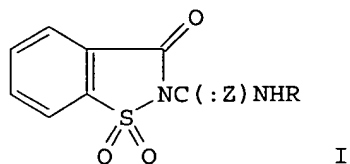
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3433391	A1	19860320	DE 1984-3433391	19840912
EP 177740	A1	19860416	EP 1985-110995	19850831
EP 177740	B1	19880928		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 37543	E	19881015	AT 1985-110995	19850831
US 4713389	A	19871215	US 1985-774271	19850910
DK 8504133	A	19860313	DK 1985-4133	19850911
ES 546877	A1	19860316	ES 1985-546877	19850911
AU 8547384	A1	19860320	AU 1985-47384	19850911
AU 571734	B2	19880421		
JP 61068477	A2	19860408	JP 1985-199614	19850911
ZA 8506951	A	19860430	ZA 1985-6951	19850911
BR 8504387	A	19860708	BR 1985-4387	19850911
DD 239516	A5	19861001	DD 1985-280522	19850911
HU 39966	A2	19861128	HU 1985-3430	19850911
PRIORITY APPLN. INFO.:			DE 1984-3433391	A 19840912
			EP 1985-110995	A 19850831

OTHER SOURCE(S): CASREACT 105:24260

GI



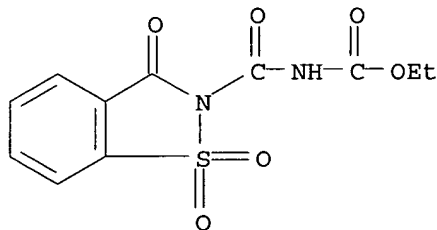
AB Title compds. I [R = COR₁, SO₂OR₂; R₁ = alkyl, haloalkyl, alkoxy, (un)substituted aryl, etc.; R₂ = alkyl, phenyl; Z = O, S] are prepared as bactericides and fungicides. Thus, ethoxycarbonyl isocyanate reacted with saccharin in Me₂CO, in the presence of Et₃N, to give I (R = EtO₂C, Z = O) (II). II gave better protection of rice against *Pyricularia oryzae* than did the standard 3-allyloxy-1,2-benzisothiazole 1,1-dioxide.

IT 102823-02-9P 102823-03-0P 102823-05-2P
 102823-06-3P 102823-07-4P 102823-08-5P
 102823-09-6P 102823-11-0P 102823-12-1P
 102823-13-2P 102823-14-3P 102823-15-4P
 102823-17-6P 102823-20-1P 102823-21-2P
 102823-24-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as bactericide and fungicide)

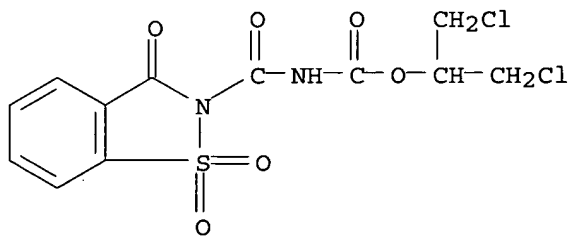
RN 102823-02-9 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



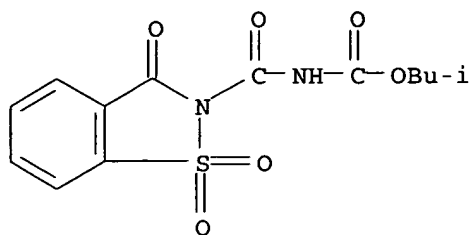
RN 102823-03-0 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chloro-1-(chloromethyl)ethyl ester (9CI) (CA INDEX NAME)



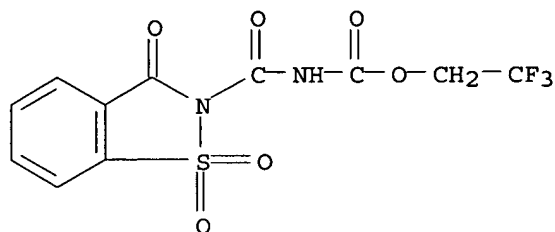
RN 102823-05-2 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



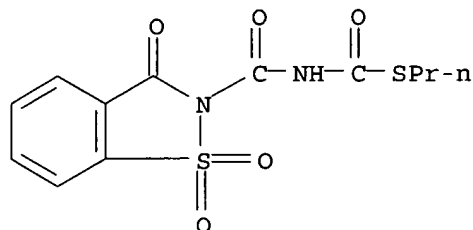
RN 102823-06-3 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



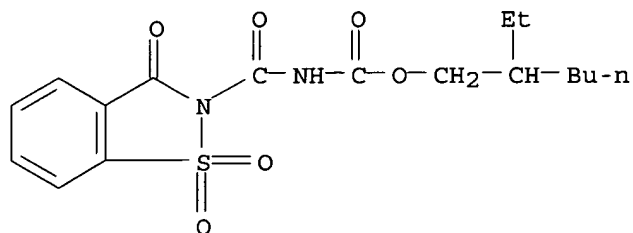
RN 102823-07-4 CAPLUS

CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-propyl ester (9CI) (CA INDEX NAME)



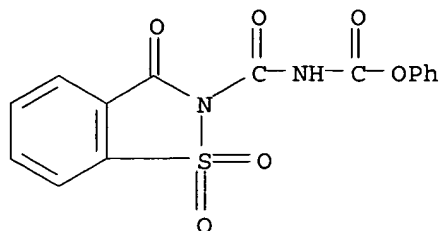
RN 102823-08-5 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-ethylhexyl ester (9CI) (CA INDEX NAME)



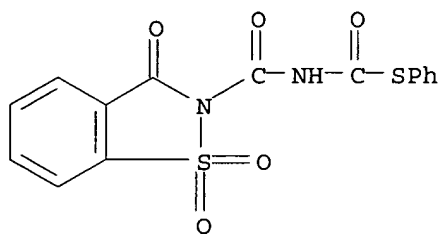
RN 102823-09-6 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



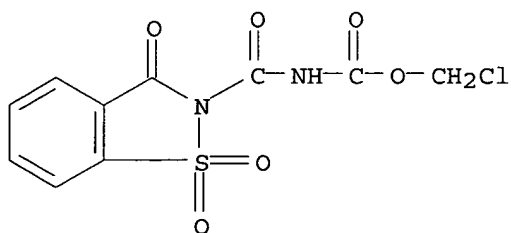
RN 102823-11-0 CAPLUS

CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-phenyl ester (9CI) (CA INDEX NAME)



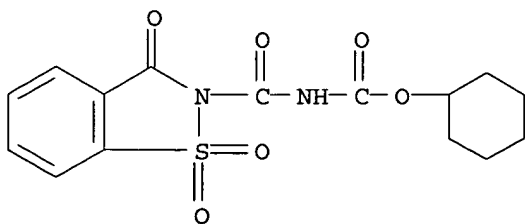
RN 102823-12-1 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, chloromethyl ester (9CI) (CA INDEX NAME)



RN 102823-13-2 CAPLUS

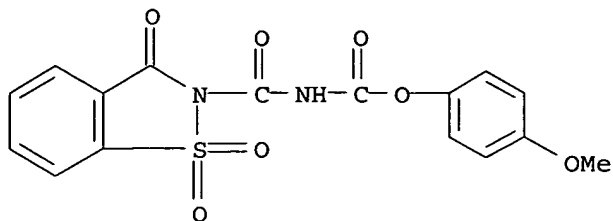
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)



RN 102823-14-3 CAPLUS

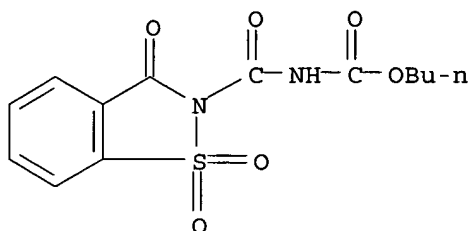
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-,

4-methoxyphenyl ester (9CI) (CA INDEX NAME)



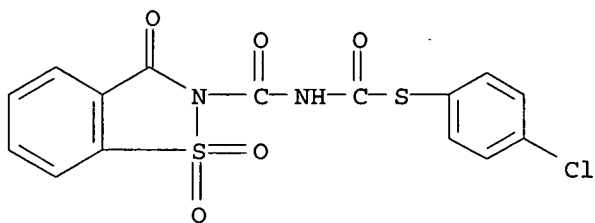
RN 102823-15-4 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, butyl ester (9CI) (CA INDEX NAME)



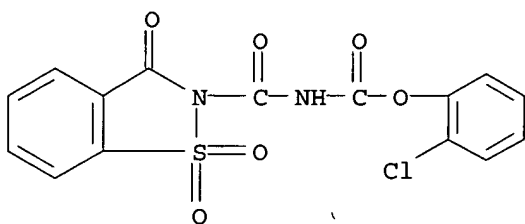
RN 102823-17-6 CAPLUS

CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-(4-chlorophenyl) ester (9CI) (CA INDEX NAME)



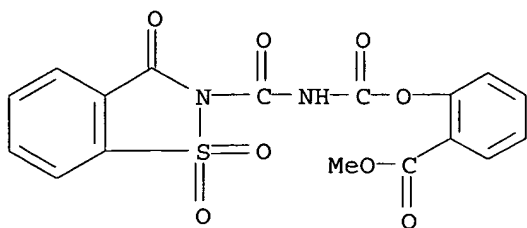
RN 102823-20-1 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chlorophenyl ester (9CI) (CA INDEX NAME)



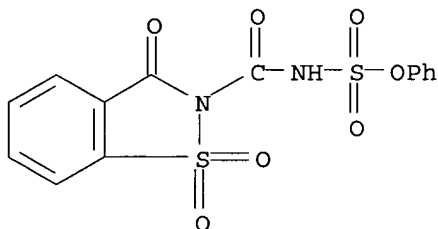
RN 102823-21-2 CAPLUS

CN Benzoic acid, 2-[[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 102823-24-5 CAPLUS

CN Sulfamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 82 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:591462 CAPLUS

DOCUMENT NUMBER: 101:191462

TITLE: Some new xanthotoxin derivatives with expected biological activity

AUTHOR(S): El-Sharief, A. M. S.; Bedair, A. H.; El-Maghraby, A. A.; Ammar, Y. A.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt

SOURCE: Egyptian Journal of Chemistry (1983), 26(5), 379-88

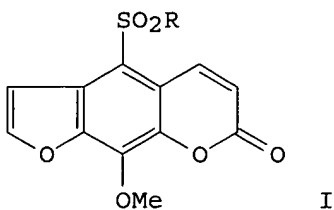
CODEN: EGJCA3; ISSN: 0367-0422

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 101:191462

GI



AB Xanthotoxin-4-sulfonyl chloride (I, R = Cl) was treated with some sulfa derivs. to give the amides and with 4-H₂NC₆H₄CO₂H to give I (R = NHC₆H₄CO₂H-4) which was converted to esters and primary and secondary

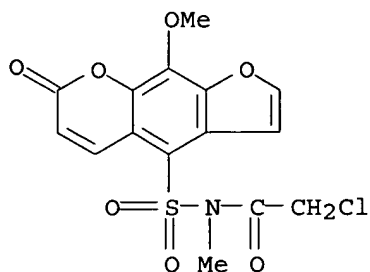
amides. 4-PhNHC₆H₄NH₂ was treated with I (R = Cl) to give I (R = NHC₆H₄NHPh-4) which was converted to acridine and phenothiazine derivs. The sulfonic acid ester I (R = OC₆H₄CHO-4) was prepared from I (R = Cl) and 4-HOC₆H₄CHO and was treated with hippuric acid to give the oxazolin-5-one derivative. Another type of xanthotoxinsulfonamides were prepared from 4-aminoxanthotoxin and sulfonyl chlorides. Some of the compds. have bactericidal and fungicidal activity.

IT 92831-61-3P 92831-63-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

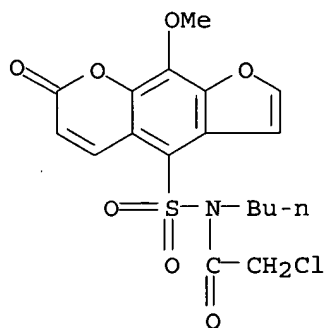
RN 92831-61-3 CAPLUS

CN Acetamide, 2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 92831-63-5 CAPLUS

CN Acetamide, N-butyl-2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L69 ANSWER 83 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:174556 CAPLUS

DOCUMENT NUMBER: 100:174556

TITLE: Synthesis and biological activity of N-substituted amides of furancarboxylic acids and furfurylphthalimide derivatives

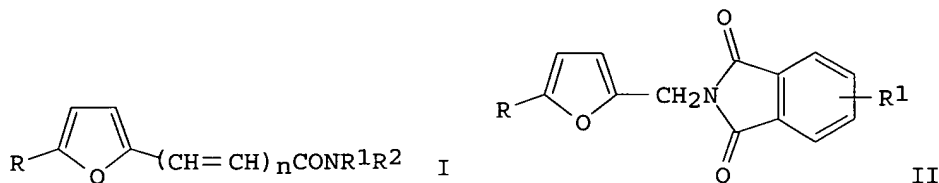
AUTHOR(S): Lukevics, E.; Castro, I.; Popelis, J.; Dipans, I.; Rozhkova, N. G.; Andreeva, E. I.; Kukalenko, S. S.

CORPORATE SOURCE: Inst. Org. Sint., Riga, USSR

SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1983), (6), 739-44

CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 100:174556
 GI



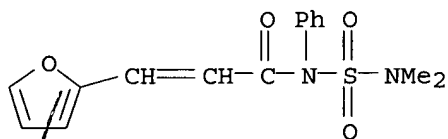
AB β -2-Furylacrylamides and homologs (I) (n, R, R1, R2 = 0, H, Ph, SO2NMe2; 0, NO2, Ph, SO2NMe2; 1, NO2, Et, Et; 1, NO2, Me2CHCH2, H; 1, NO2, 2-furylmethyl, H; 1, NO2, PhCH2, H; 1, NO2, Ph, H; 1, NO2, Ph, SO2NMe2; 1, H, Ph, SO2NMe2) and N-(2-furylmethyl)phthalimides (II; R, R1 = H, H; NO2, H; H, 4-Cl; H, 4-I; H, 3-Cl) were prepared conventionally and found less effective as bactericides and fungicides than stds.

IT 89811-30-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and bactericidal and fungicidal activity of)

RN 89811-30-3 CAPLUS

CN 2-Propenamide, N-[(dimethylamino)sulfonyl]-3-(2-furyl)-N-phenyl- (9CI)
 (CA INDEX NAME)



169 ANSWER 84 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:51177 CAPLUS

DOCUMENT NUMBER: 100:51177

TITLE: 2,5-Dichlorobenzenesulfonamide derivatives and their biological activities

AUTHOR(S): El-Sharief, A. M. S.; Ammar, M. S.; Ammar, Y. A.; Zaki, M. E. A.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(7), 700-4

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 100:51177

AB 2,5-Cl2C6H3SO2Cl (I) reacts with 4-H2NC6H4CO2H to give the sulfonamide from which esters and amides have been prepared Reaction of I with N2H4 furnishes two hydrazides. Phenols and thiols react with I to give sulfonic esters, one of which reacts with hippuric acid to give the

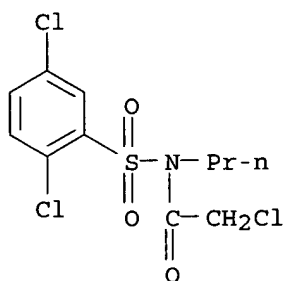
oxazolone derivative Reaction of I with 4-H₂NC₆H₄NHPh gives 2,5-dichloro-N-[(p-phenylamino)phenyl]benzenesulfonamide which has been converted to acridines and phenothiazine derivs. Most of the compds. show either low or no activity against a number of bacteria and filamentous fungi.

IT 88522-29-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and bactericidal activity of)

RN 88522-29-6 CAPLUS

CN Acetamide, 2-chloro-N-[(2,5-dichlorophenyl)sulfonyl]-N-propyl- (9CI) (CA INDEX NAME)



✓ L69 ANSWER 85 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1983:470727 CAPLUS
 DOCUMENT NUMBER: 99:70727
 TITLE: Substituted urea derivatives
 INVENTOR(S): Soos, Rudolf; Bitter, Istvan; Hidasi, Gyorgy; Zoltan, Sandor; Vidra, Laszlo; Schler, Istvan
 PATENT ASSIGNEE(S): Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt., Hung.
 SOURCE: Hung. Teljes, 14 pp.
 CODEN: HUXXB
 DOCUMENT TYPE: Patent
 LANGUAGE: Hungarian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 24125	O	19821228	HU 1979-CI1939	19790604
HU 181675	B	19831128		

PRIORITY APPLN. INFO.: HU 1979-CI1939 19790604

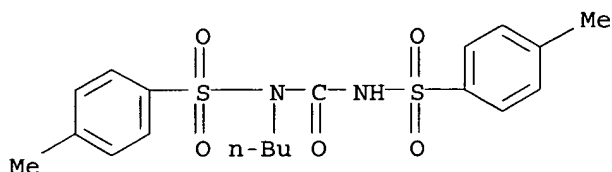
OTHER SOURCE(S): CASREACT 99:70727

AB The urea derivs. R₁R₂NCONHR₃ (R₁ = H or C₁-6 alkyl; R₂ = 4-H₂N- or 4-MeC₆H₄SO₂; NR₁R₂ = alkoxy-carbonylaminobenzimidazolyl; R₃ = alkyl or 4-MeC₆H₄SO₂) are prepared from the corresponding formamide derivs. R₃NHCHO by chlorination, followed by reaction with R₁R₂NH in the presence of an acid-binding compound. Thus, 73.7 g SO₂Cl₂ was treated dropwise with 46.9 g butylformamide. The mixture was added dropwise into a mixture of 64 g 2-(methoxycarbonylamino)benzimidazole and 30 g CaCO₃ in 250 mL acetone and 200 mL water, followed by acidification with HCl to give 95 g 1-(butylcarbonyl)-2-(methoxycarbonylamino)benzimidazole. N-(4-Aminobenzenesulfonyl)-N'-butylurea was prepared similarly, using 4-acetamidobenzenesulfonamide, and deacetylation of the reaction product.

IT 86602-57-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 86602-57-5 CAPLUS

CN Benzenesulfonamide, N-butyl-4-methyl-N-[[[(4-methylphenyl)sulfonyl]amino]c
arbonyl]- (9CI) (CA INDEX NAME)

L69 ANSWER 86 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1983:156407 CAPLUS

DOCUMENT NUMBER: 98:156407

TITLE: Herbicide compositions of phenoxybenzoic acid
derivatives

INVENTOR(S): Lee, G. H.

PATENT ASSIGNEE(S): Rhone-Poulenc Agrochimie, Fr.

SOURCE: Belg., 29 pp.
CODEN: BEXXAL

DOCUMENT TYPE: Patent

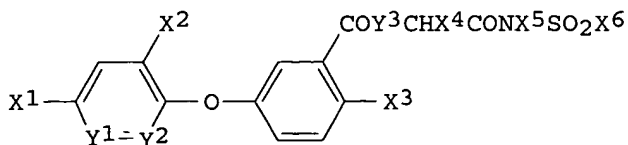
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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BE 893941	A1	19830126	BE 1982-208677	19820726
FR 2510104	A1	19830128	FR 1982-11334	19820625
NL 8202973	A	19830216	NL 1982-2973	19820723
DK 8203334	A	19830128	DK 1982-3334	19820726
SE 8204456	A	19830128	SE 1982-4456	19820726
AU 8286427	A1	19830203	AU 1982-86427	19820726
DE 3227894	A1	19830217	DE 1982-3227894	19820726
JP 58026861	A2	19830217	JP 1982-130217	19820726
GB 2106102	A1	19830407	GB 1982-21569	19820726
ZA 8205346	A	19830525	ZA 1982-5346	19820726
ES 514353	A1	19830816	ES 1982-514353	19820726
HU 30859	O	19840428	HU 1982-2400	19820726
BR 8204371	A	19830719	BR 1982-4371	19820727
DD 202372	A5	19830914	DD 1982-241981	19820727
PRIORITY APPLN. INFO.:			US 1981-286959	A 19810727
			US 1981-286997	A 19810727

GI



I

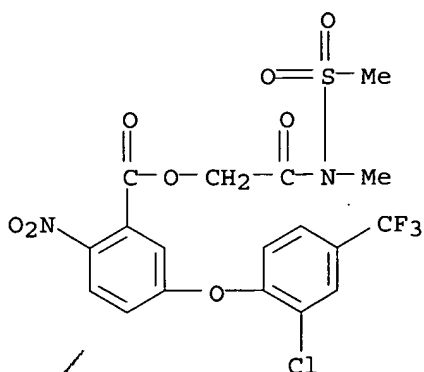
AB The phenoxybenzoic acid derivs. I (X1, X2, and X3 = halo, alkyl, haloalkyl, etc.; Y1 = N or CH; Y2 = H or CX7; Y3 = O or S; X4 = H, alkyl, etc.; X5 = H, Na, K, NH4, etc.; X6 = alkyl or substituted alkyl; X7 = H or halogen) are herbicides. Thus, pre-emergence application of 4-methylphenylsulfonylaminocarbonylmethyl 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoate Na salt [85260-83-9] (1.12 kg/ha) controlled wild mustard (*Sinapis arvensis*) and pigweed (*Amaranthus retroflexus*), with no phytotoxicity to cotton. The synthesis of I is given.

IT **85260-85-1P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and herbicidal activity of)

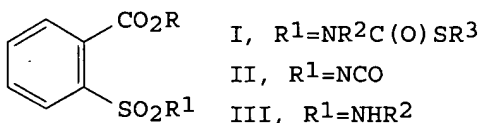
RN 85260-85-1 CAPLUS

CN Benzoic acid, 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitro-, 2-[methyl(methylsulfonyl)amino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



✓ L69 ANSWER 87 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1983:53400 CAPLUS
 DOCUMENT NUMBER: 98:53400
 TITLE: Benzenesulfoamide derivatives
 PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57140763	A2	19820831	JP 1981-26424	19810225
PRIORITY APPLN. INFO.: GI			JP 1981-26424	19810225



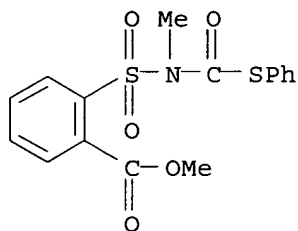
AB Thirty-nine benzenesulfonamides I [R = alkyl, alkenyl; R2 = H, alkyl; R3 = alkyl, alkenyl, cycloalkyl, (substituted) benzyl, (substituted) Ph, furylmethyl, methylpyridyl, methylimidazolyl, methyltriazolyl] were prepared by reaction of II with HSR3 or by reaction of III with ClC(O)SR3. Thus, stirring a mixture of 30 mL benzene, 4.2 g HSC6H2Cl3-2,4,5, and 4.8 g II (R = Me) at room temperature for 3 h followed by standing overnight gave 4.7 g I

(R = Me, R2 = H, R3 = 2,4,5-Cl3C6H2). I were effective against Pyricularia oryzae in emulsion, powder, and granular forms.

IT **84334-34-9P 84334-44-1P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation and antibacterial activity of)

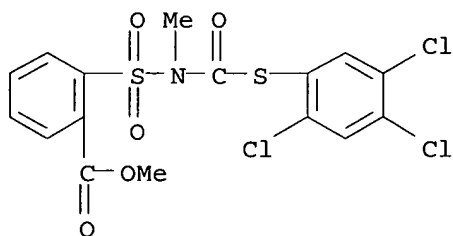
RN 84334-34-9 CAPLUS

CN Benzoic acid, 2-[[methyl[(phenylthio)carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 84334-44-1 CAPLUS

CN Benzoic acid, 2-[[methyl[[[(2,4,5-trichlorophenyl)thio]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 88 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:582004 CAPLUS

DOCUMENT NUMBER: 97:182004

TITLE: Arylsulfonylureidocarboxylates and -thiocarboxylates and their salts: herbicidal antidotes

INVENTOR(S): Pallos, Ferenc Marcus; Lin, Kang Chi; Green, Laddie Lee

PATENT ASSIGNEE(S): Stauffer Chemical Co. , USA

SOURCE: Eur. Pat. Appl., 65 pp.
 CODEN: EPXXDW

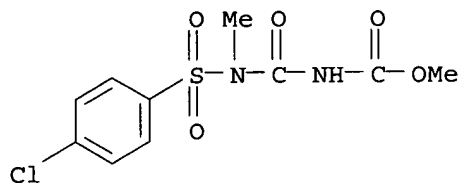
DOCUMENT TYPE: Patent

LANGUAGE: English

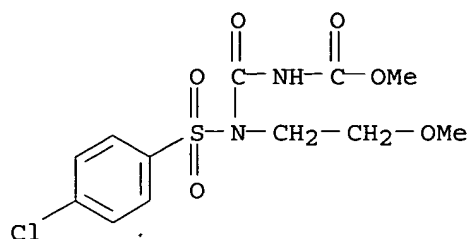
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 52856	A2	19820602	EP 1981-109748	19811117
EP 52856	A3	19820728		
R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
DK 8105062	A	19820520	DK 1981-5062	19811116
FI 8103670	A	19820520	FI 1981-3670	19811118
NO 8103906	A	19820521	NO 1981-3906	19811118
AU 8177597	A1	19820527	AU 1981-77597	19811118
BR 8107511	A	19820810	BR 1981-7511	19811118
DD 202368	A5	19830914	DD 1981-234956	19811118
HU 27549	O	19831028	HU 1981-3451	19811118
JP 57118552	A2	19820723	JP 1981-184531	19811119
ZA 8108019	A	19821229	ZA 1981-8019	19811119
ES 507277	A1	19830316	ES 1981-507277	19811119
PL 129928	B1	19840630	PL 1981-233897	19811119
ES 516548	A1	19831201	ES 1982-516548	19821015
JP 58083668	A2	19830519	JP 1982-181489	19821018
US 4931580	A	19900605	US 1983-564981	19831223
PRIORITY APPLN. INFO.:			US 1980-207991	A 19801119
			US 1981-312251	A 19811019
AB	RSO2NR1CONR2C(O)XR3 [I; R = (un)substituted Ph, PhCH2, naphthyl, pyridyl, styryl; R1 = H, C1-4 alkyl, C2-6 alkoxyalkyl; R2 = H, C1-4 alkyl, C2-6 alkoxyalkyl, Ph, ClC6H4; X = O, S; R3 = C1-4 alkyl, C3-6 alkenyl or alkynyl, C1-4 haloalkyl, C2-6 alkoxyalkyl, CPh:CHMe, PhCH2, chlorobenzyl, C3-6 haloalkenyl, (un)substituted Ph] were prepared for protecting crops from injury due to thiocarbamate, thiocarbamate sulfoxide, or haloacetanilide herbicides. Thus, reaction of H2NCO2Me and 4-ClC6H4SO2NCO gave 1-(4-chlorobenzenesulfonyl)-3-(methoxycarbonyl)urea. Alternatively, reaction of 4-O2NC6H4SO2NH2 and OCNCO2Me in the presence of pyridine catalysts gave 1-(4-nitrobenzenesulfonyl)-3-(methoxycarbonyl)urea. About 150 examples of I were prepared			
IT	83308-97-8P 83309-12-0P			
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and activity as herbicidal antidote)			
RN	83308-97-8 CAPLUS			
CN	Carbamic acid, [[[4-chlorophenyl)sulfonyl]methylamino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)			



RN 83309-12-0 CAPLUS
 CN Carbamic acid, [[[4-chlorophenyl)sulfonyl] (2-methoxyethyl) amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 89 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:144016 CAPLUS

DOCUMENT NUMBER: 96:144016

TITLE: Siloxane emulsions with improved cold stability

INVENTOR(S): Steinbach, Hans Horst; Schnurrbusch, Karl; Rieder, Matthias; Weiden, Otto

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 43985	A2	19820120	EP 1981-105091	19810701
EP 43985	A3	19820127		
EP 43985	B1	19841003		
R: BE, DE, FR, GB, IT, NL				
DE 3026501	A1	19820204	DE 1980-3026501	19800712

PRIORITY APPLN. INFO.: DE 1980-3026501 A 19800712

AB Alcs. such as EtOH [64-17-5], glycerol [56-81-5], and HOCH₂CH₂OH [107-21-1] improved the freeze-thaw stability of emulsions of siloxanes containing Si-bonded H. The emulsions are resistant to hydrolytic splitting to H. The emulsions are useful for the waterproofing of textiles, as crosslinking agents for siloxanes, etc. Thus, an emulsion (pH 3-4) comprising a poly(methylhydrogensiloxane) 80, C₁₂H₂₅(PhCH₂)NMe₂Cl [139-07-1] 7, glycerol 2, EtOH 1, and water 110 parts was stable during a freeze-thaw test (-20°). The emulsion (300 mL) formed 8 mL H during 24 h of stirring at 40°.

IT 59355-81-6

RL: USES (Uses)

(emulsifying agents, for poly(methylhydrogensiloxane))

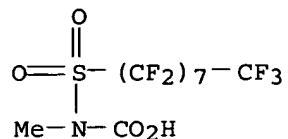
RN 59355-81-6 CAPLUS

CN Oxirane, methyl-, polymer with oxirane, mono[[heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 123748-41-4

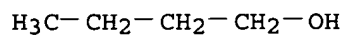
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3

CMF C4 H10 O



CM 3

CRN 9003-11-6

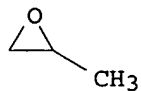
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8

CMF C2 H4 O



L69 ANSWER 90 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:29975 CAPLUS

DOCUMENT NUMBER: 96:29975

TITLE: N-(Benzenesulfonyl)thiocarbamates as herbicidal antidotes

INVENTOR(S): Gaughan, Edmund J.; Kezerian, Charles

PATENT ASSIGNEE(S): Stauffer Chemical Co. , USA

SOURCE: Can., 20 pp. Division of Can. Appl. No. 262,513.

CODEN: CAXXA4

DOCUMENT TYPE: Patent

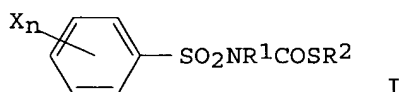
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1110081	A2	19811006	CA 1980-362715	19801017
BE 846895	A2	19770401	BE 1976-7000898	19761001
CA 1103694	A1	19810623	CA 1976-262513	19761001
HU 22393	O	19820528	HU 1976-SA2980	19761001
HU 180069	B	19830128		
SU 671700	D	19790630	SU 1976-2412353	19761019
US 4356025	A	19821026	US 1981-241278	19810306
PRIORITY APPLN. INFO.:			US 1975-619115	A 19751002
			US 1976-723251	A 19760917
			CA 1976-262513	A3 19761001
			US 1979-108890	A3 19791231

GI



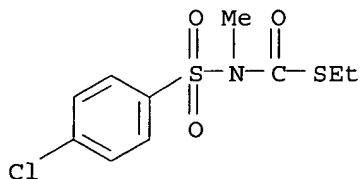
AB Herbicidal compns. containing a thiocarbamate herbicide and an N-(benzenesulfonyl)thiocarbamate I (X = H, Me, Cl, Br, OMe; R1 = H, Me; R2 = C1-4 alkyl, etc.; n = 1, 2 or 3) are antidotally active. Thus, preplant incorporation of Vernam (S-Pr N,N-di-Pr thiocarbamate) [1929-77-7] at 6 lb/acre in tank mix with N-(p-chlorobenzenesulfonyl)thiolcarbamate Et ester [63637-93-4] (6 lb/acre) in an exptl. system containing soybean, Setaria viridis and Echinochloa crus-galli provided 50% protection to soybean. Synthesis of the antidotes is described.

IT 63637-96-7

RL: BIOL (Biological study)
(as thiocarbamate herbicidal antidote)

RN 63637-96-7 CAPLUS

CN Carbamothioic acid, [(4-chlorophenyl)sulfonyl]methyl-, S-ethyl ester (9CI)
(CA INDEX NAME)



L69 ANSWER 91 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:567921 CAPLUS

DOCUMENT NUMBER: 93:167921

TITLE: Acaricidal sulfonamides

INVENTOR(S): Takahashi, Susumu; Kano, Saburo; Yamada, Tomio

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

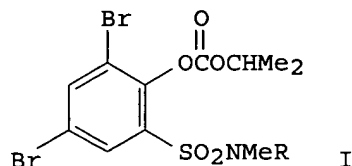
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55038354	A2	19800317	JP 1978-112629	19780913
PRIORITY APPLN. INFO.: GI			JP 1978-112629	A 19780913



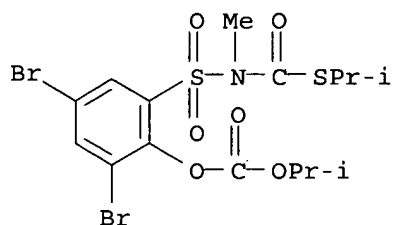
AB Sulfonamides I (R = alkylthiocarbonyl, alkylthioalkoxycarbonyl) were prepared and used as acaricides. Thus, refluxing 4 g I (R = H) K salt with 1.3 g Me₂CHSCOC₂H₅ in MeCN 2.5 h gave 3.9 g I (R = Me₂CHSCO).

IT 75145-34-5P 75145-35-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and acaricidal activity of)

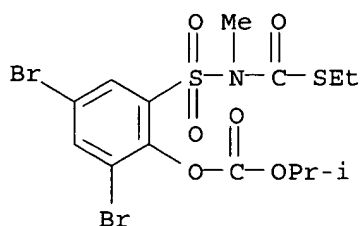
RN 75145-34-5 CAPLUS

CN Carbonic acid, 2,4-dibromo-6-[[methyl[(1-methylethyl)thio]carbonyl]amino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 75145-35-6 CAPLUS

CN Carbonic acid, 2,4-dibromo-6-[[[(ethylthio)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 92 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:182867 CAPLUS

DOCUMENT NUMBER: 92:182867

TITLE: Preliminary data on lowering of the surface tension of a liquid paraffin by the effect of some derivatives of perfluorooctanesulfonic and perfluorooctanoic acids

AUTHOR(S): Napoli, Massimo; Fraccaro, Carla; Badan, Brando; Scipioni, Antonio

CORPORATE SOURCE: Italy

SOURCE: Atti - Istituto Veneto di Scienze, Lettere ed Arti, Classe di Scienze Matematiche e Naturali (1978), 136, 101-9

CODEN: AIVLAQ; ISSN: 0365-3528

DOCUMENT TYPE: Journal

LANGUAGE: Italian

AB The decrease in the surface tension of liquid paraffins in the presence of derivs. of the perfluorooctanesulfonic acid and perfluorooctanoic acid depends on the solubility, nature of functional groups, organophobic-organophilic group ratio and F/H ratio. The decrease in surface tension of the paraffin with increasing solubility of the fluorinated compound was

higher for amides than for esters of the fluorinated acids. The surface tension decreased with increasing F/H ratio in the fluorinated compds. was observed for esters while no correlation was observed in case of amides. The exptl. data suggested a higher organophilicity of the ester than of the amide group of the fluorinated compds.

IT 59355-81-6

RL: USES (Uses)

(surfactant, for liquid paraffins)

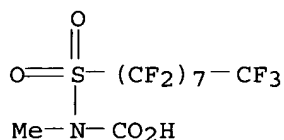
RN 59355-81-6 CAPLUS

CN Oxirane, methyl-, polymer with oxirane, mono[[heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 123748-41-4

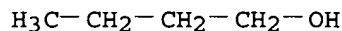
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3

CMF C4 H10 O

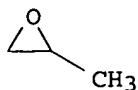


CM 3

CRN 9003-11-6
 CMF (C3 H6 O . C2 H4 O)x
 CCI PMS

CM 4

CRN 75-56-9
 CMF C3 H6 O



CM 5

CRN 75-21-8
 CMF C2 H4 O



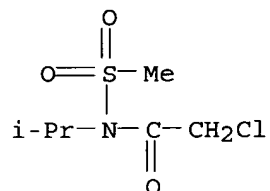
69 ANSWER 93 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1980:41570 CAPLUS
 DOCUMENT NUMBER: 92:41570
 TITLE: Benzenesulfonamide derivatives
 INVENTOR(S): Iwakura, Toshio; Hirakawa, Katsuhito; Takayama, Shuichi; Ito, Shigehisa
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54090117	A2	19790717	JP 1977-157009	19771226
PRIORITY APPLN. INFO.:			JP 1977-157009	A 19771226
AB Twenty-seven title derivs. RSO ₂ NR ₂ COR ₁ [I, R = alkyl, R ₃ C ₆ H ₄ , R ₃ = H, Cl, alkyl, AcNH; R ₁ = alkyl, chloroalkyl; R ₂ = alkyl, aryl, (R ₄)nC ₆ H ₅ -n, R ₄ = Cl, alkyl, n = 0-2] were prepared by reaction of RSO ₂ NR ₂ R ₅ (R ₅ = H, alkali metals) with R ₁ COX (X = halo). Thus, 5.4 g ClCH ₂ COCl was added to 8 g PhSO ₂ NNaCH ₂ Me in C ₆ H ₆ and the mixture refluxed 3 h to give 63.6% I (R = Ph, R ₁ = ClCH ₂ , R ₂ = Me ₂ CH). Antibacterial data of I were given against <i>Pyricularia orizae</i> .				
IT 38994-92-2P 72309-98-9P 72309-99-0P				
72310-00-0P 72310-01-1P 72310-02-2P				
72310-03-3P 72310-04-4P 72310-12-4P				
72310-13-5P 72310-14-6P 72310-17-9P				
72310-18-0P 72310-19-1P 72310-20-4P				
72310-22-6P				
RL: SPN (Synthetic preparation); PREP (Preparation)				

(preparation of)

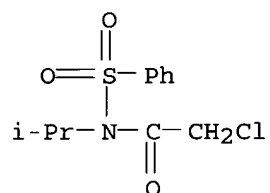
RN 38994-92-2 CAPLUS

CN Acetamide, 2-chloro-N-(1-methylethyl)-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



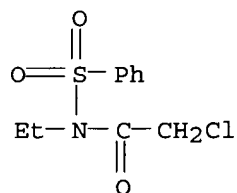
RN 72309-98-9 CAPLUS

CN Acetamide, 2-chloro-N-(1-methylethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



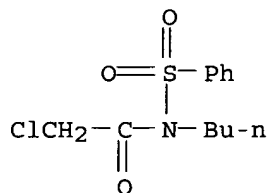
RN 72309-99-0 CAPLUS

CN Acetamide, 2-chloro-N-ethyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



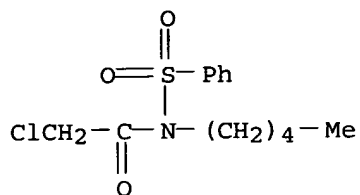
RN 72310-00-0 CAPLUS

CN Acetamide, N-butyl-2-chloro-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



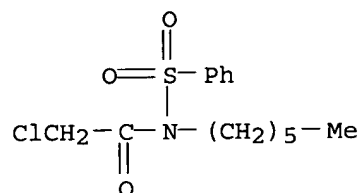
RN 72310-01-1 CAPLUS

CN Acetamide, 2-chloro-N-pentyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



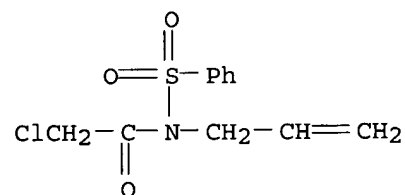
RN 72310-02-2 CAPLUS

CN Acetamide, 2-chloro-N-hexyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



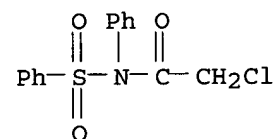
RN 72310-03-3 CAPLUS

CN Acetamide, 2-chloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



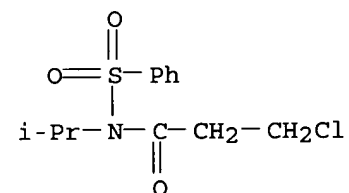
RN 72310-04-4 CAPLUS

CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

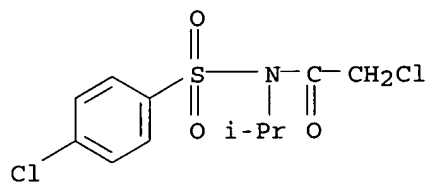


RN 72310-12-4 CAPLUS

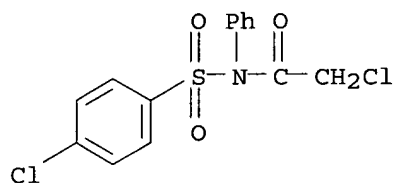
CN Propanamide, 3-chloro-N-(1-methylethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



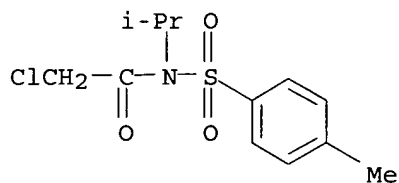
RN 72310-13-5 CAPLUS
 CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-(1-methylethyl)- (9CI)
 (CA INDEX NAME)



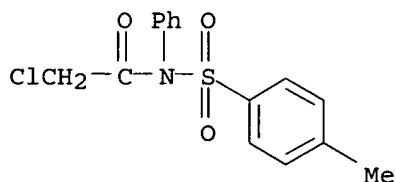
RN 72310-14-6 CAPLUS
 CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-phenyl- (9CI) (CA
 INDEX NAME)



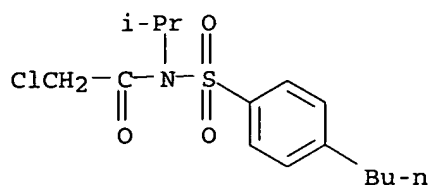
RN 72310-17-9 CAPLUS
 CN Acetamide, 2-chloro-N-(1-methylethyl)-N-[(4-methylphenyl)sulfonyl]- (9CI)
 (CA INDEX NAME)



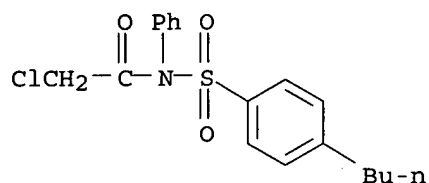
RN 72310-18-0 CAPLUS
 CN Acetamide, 2-chloro-N-[(4-methylphenyl)sulfonyl]-N-phenyl- (9CI) (CA
 INDEX NAME)



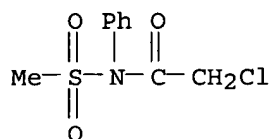
RN 72310-19-1 CAPLUS
 CN Acetamide, N-[(4-butylphenyl)sulfonyl]-2-chloro-N-(1-methylethyl)- (9CI)
 (CA INDEX NAME)



RN 72310-20-4 CAPLUS
 CN Acetamide, N-[(4-butylphenyl)sulfonyl]-2-chloro-N-phenyl- (9CI) (CA INDEX NAME)



RN 72310-22-6 CAPLUS
 CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-phenyl- (9CI) (CA INDEX NAME)

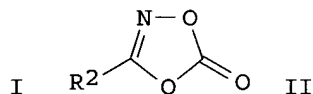
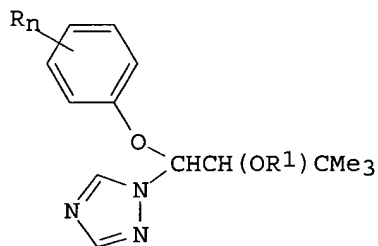


L69 ANSWER 94 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1980:6533 CAPLUS
 DOCUMENT NUMBER: 92:6533
 TITLE: Fungicidal carbamoyltriazolyl-O,N-acetals
 INVENTOR(S): Buechel, Karl Heinz; Kraemer, Wolfgang; Brandes, Wilhelm
 PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 22 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2800544	A1	19790719	DE 1978-2800544	19780107
CA 1094258	A1	19810127	CA 1977-272661	19770225
US 4237142	A	19801202	US 1978-971291	19781220
EP 3049	A2	19790725	EP 1978-101848	19781223
EP 3049	B1	19800820		
EP 3049	A3	19790808		

R: BE, CH, DE, FR, GB, IT, NL, SE

RO 75739	P	19810228	RO 1978-96067	19781227
SU 910108	A3	19820228	SU 1979-2706202	19790103
CS 204043	P	19810331	CS 1979-134	19790104
DK 7900046	A	19790708	DK 1979-46	19790105
JP 54100377	A2	19790808	JP 1979-72	19790105
BR 7900048	A	19790814	BR 1979-48	19790105
ES 476617	A1	19791101	ES 1979-476617	19790105
ZA 7900045	A	19800130	ZA 1979-45	19790105
DD 141256	C	19800423	DD 1979-210358	19790105
AT 7900107	A	19810115	AT 1979-107	19790105
AT 363723	B	19810825		
PL 115653	B1	19810430	PL 1979-212674	19790105
CA 1113945	A1	19811208	CA 1979-319159	19790105
HU 23086	O	19820830	HU 1979-BA3745	19790105
HU 180673	B	19830429		
IL 56378	A1	19830515	IL 1979-56378	19790105
AU 7943183	A1	19790712	AU 1979-43183	19790108
AU 517276	B2	19810716		
PRIORITY APPLN. INFO.:			DE 1978-2800544	A 19780107
GI				



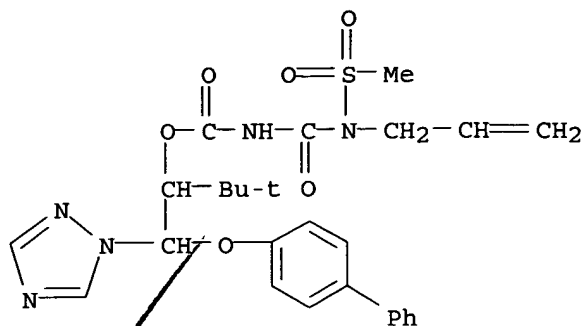
AB The title compds. I [R = halogen, alkyl, alkoxy, esterified CO₂H, (un)substituted Ph, PhO, or phenylalkyl, NH₂, NO₂, CN, etc; R₁ = R₂CO; R₂ = alkyl, halo- or alkoxyalkyl, esterified CO₂H, substituted Ph, alkylsulfonylalkenylcarbamoyl; n = 0-5] were prepared by the reaction of I (R₁ = H) with R₂NCO or II and tested for fungicidal activity. Thus, I (R_n = 4-Ph, R₁ = H) reacted with MeOCH₂NCO in THF to give I (R_n = 4-Ph, R₁ = MeOCH₂NHCO).

IT **72013-92-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 72013-92-4 CAPLUS

CN Carbamic acid, [[[methylsulfonyl]-2-propenylamino]carbonyl]-, 1-[[[1,1'-biphenyl]-4-yloxy]-1H-1,2,4-triazol-1-ylmethyl]-2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



L69 / ANSWER 95 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1978:530453 CAPLUS

DOCUMENT NUMBER: 89:130453

TITLE: Stable alkylhydrogenpolysiloxane emulsions

INVENTOR(S): Steinbach, Hans Horst; Schnurrbusch, Karl; Rieder, Matthias; Weiden, Otto

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 9 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2701724	A1	19780720	DE 1977-2701724	19770118
DE 2701724	C2	19840920		
US 4179426	A	19791218	US 1978-866965	19780104
GB 1591957	A	19810701	GB 1978-1454	19780113
FI 7800135	A	19780719	FI 1978-135	19780116
FI 68647	B	19850628		
FI 68647	C	19851010		
CA 1109576	A1	19810922	CA 1978-294968	19780116
SE 7800541	A	19780719	SE 1978-541	19780117
SE 425807	B	19821108		
SE 425807	C	19830217		
NL 7800546	A	19780720	NL 1978-546	19780117
BR 7800259	A	19780905	BR 1978-259	19780117
BE 863006	A1	19780718	BE 1978-56607	19780118
FR 2377438	A1	19780811	FR 1978-1404	19780118
FR 2377438	B1	19851025		
AT 7800356	A	19820915	AT 1978-356	19780118
AT 370758	B	19830510		

PRIORITY APPLN. INFO.: DE 1977-2701724 A 19770118

AB A perfluoroalkyl group-containing emulsifier and, optionally, a perfluoroalkyl group-containing siloxane were used to prepare stable aqueous emulsions of alkylhydrogen siloxanes with good stabilization of the Si-H bonds. The emulsions were especially suitable as waterproofing compns. for textiles.

Thus,

35 parts methylhydrogen siloxane was mixed with 64.5 parts water containing 0.5 part C8F17SO2NMeCO(OC2H4)30(OC3H6)300Bu [59355-81-6] to prepare a stable emulsion.

IT 59355-81-6

RL: USES (Uses)
(emulsifiers, for alkylhydrogen siloxanes)

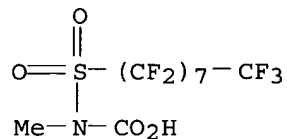
RN 59355-81-6 CAPLUS

CN Oxirane, methyl-, polymer with oxirane, mono[[heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 123748-41-4

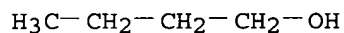
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3

CMF C4 H10 O



CM 3

CRN 9003-11-6

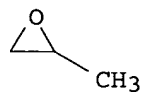
CMF (C3 H6 O . C2 H4 O) x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8

CMF C2 H4 O



L69 ANSWER 96 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1977:534745 CAPLUS
 DOCUMENT NUMBER: 87:134745
 TITLE: N-(Benzenesulfonyl)thiocarbamates for herbicides
 INVENTOR(S): Gaughan, Edmund J.; Kezerian, Charles
 PATENT ASSIGNEE(S): Stauffer Chemical Co., USA
 SOURCE: Ger. Offen., 27 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2644446	A1	19770414	DE 1976-2644446	19761001
DE 2644446	C2	19841122		
CH 628210	A	19820226	CH 1976-12384	19760930
BE 846895	A2	19770401	BE 1976-7000898	19761001
DK 7604423	A	19770403	DK 1976-4423	19761001
NL 7610907	A	19770405	NL 1976-10907	19761001
FR 2326418	A1	19770429	FR 1976-29554	19761001
FR 2326418	B1	19801017		
BR 7606585	A	19770705	BR 1976-6585	19761001
AU 504263	B2	19791011	AU 1976-18327	19761001
GB 1570997	A	19800709	GB 1976-40796	19761001
HU 22393	O	19820528	HU 1976-SA2980	19761001
HU 180069	B	19830128		
JP 52048641	A2	19770418	JP 1976-118907	19761002
JP 60014021	B4	19850411		
DD 127615	C	19771005	DD 1976-195120	19761002
RO 72431	P	19810831	RO 1976-87892	19761002
IL 50604	A1	19801130	IL 1976-50604	19761003
IN 144966	A	19780805	IN 1976-CA1812	19761004
PL 101802	P	19790228	PL 1976-192817	19761004
SU 671700	D	19790630	SU 1976-2412353	19761019
US 4297295	A	19811027	US 1979-108890	19791231
US 4356025	A	19821026	US 1981-241278	19810306
JP 58170704	A2	19831007	JP 1982-200507	19821117
PRIORITY APPLN. INFO.:			US 1975-619115	A 19751002
			US 1976-723251	A 19760917
			US 1979-108890	A3 19791231

OTHER SOURCE(S): CASREACT 87:134745

AB 4-RC6H4SO2NR1C(O)SR2 (I; R = H, Br, Cl, Me, MeO; R1 = H or Me; R2 = Et. Pr, Me2CH, PhCH2, 4-ClC6H4, CH2SCOSO2ClH4Cl-4) were prepared by treating 4-RC6H4SO2NHR1 with ClC(O)SR2. I and 2,4,6-Me3C6H2SO2NHC(O)SEt, similarly prepared, protected desirable plants in herbicide mixts.

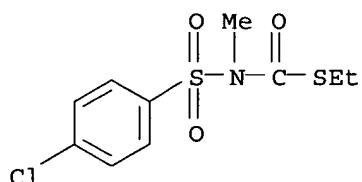
IT 63637-96-7P

RL: PREP (Preparation)

(manufacture of, and use as protective agents for desireable plants in herbicides)

RN 63637-96-7 CAPLUS

CN Carbamothioic acid, [(4-chlorophenyl)sulfonyl]methyl-, S-ethyl ester (9CI)
 (CA INDEX NAME)



L69 ANSWER 97 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:467824 CAPLUS

DOCUMENT NUMBER: 87:67824

TITLE: Synthesis and biological properties of dithiocarbamic acid derivatives. X. The fungicide effectiveness of several N,N-dimethyldithiocarbamates.

AUTHOR(S): Konecny, V.; Halgas, J.

CORPORATE SOURCE: Res. Inst. Agrochem. Technol., Bratislava, Czech.

SOURCE: Acta Facultatis Rerum Naturalium Universitatis

Comenianae, Chimia (1977), 25, 37-67

CODEN: AFRCAQ; ISSN: 0524-2312

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Preparative and fungicidal data are given for 140 derivs. of Me₂NCS₂H. These include 81 Me₂NCS₂R (R = alkyl, alkenyl, cycloalkyl, Ph, CH₂Ph, any of the foregoing substituted, including 37 ring-substituted benzyls, PhCH₂SO₂, etc.), 15 Me₂NCS₂(CH₂)_nS(CH₂)_mR (R = Ph or substituted phenyl; n = 0, 1, or 2, m = 0 or 1), 12 Me₂NCS₂(CH₂)_nOR (R = H, Et, acyl; n = 1 or 2), 19 Me₂NCS₂CH₂COR (R = OH, alkoxy, NH₂, substituted amino, N-heterocyclyl, etc.), and 13 Me₂NCS₂C(X)R (R = substituted amino, Ph, isopropoxy, etc.).

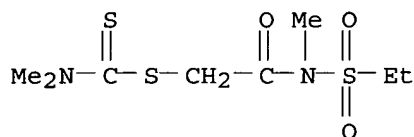
IT 30895-93-3P 30895-94-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and fungicidal activity of)

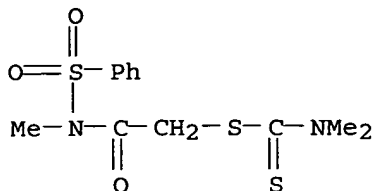
RN 30895-93-3 CAPLUS

CN Carbamodithioic acid, dimethyl-, 2-[(ethylsulfonyl)methylamino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



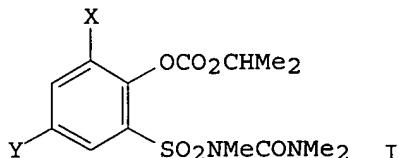
RN 30895-94-4 CAPLUS

CN Carbamodithioic acid, dimethyl-, 2-[methyl(phenylsulfonyl)amino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 98 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1977:184574 CAPLUS
 DOCUMENT NUMBER: 86:184574
 TITLE: Sulfamoylphenol derivatives as acaricides
 INVENTOR(S): Kano, Saburo; Ando, Meiki
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

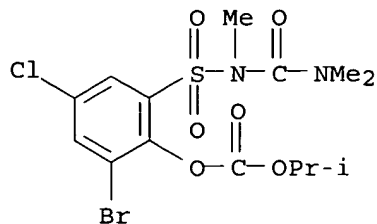
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52007937	A2	19770121	JP 1975-84117	19750709
PRIORITY APPLN. INFO.: GI			JP 1975-84117	A 19750709



AB The sulfamoylphenyl carbonates I (X = Y = halogen) are acaricides. I (X = Br, Y = Cl) (II) [62572-95-6] was prepared by treating K iso-Pr 2-bromo-4-chloro-6-(N-methylsulfamoyl)phenyl carbonate (III) [62572-96-7] with dimethylcarbamoyle chloride [79-44-7]. III was synthesized by adding iso-Pr chloroformate [108-23-6] to 2-bromo-4-chloro-6-N-methylsulfamoylphenol K salt [62572-97-8]. Similarly, 2 other I were prepared II sprayed at 125 ppm on beans completely controlled Panonychus urticae infestation.

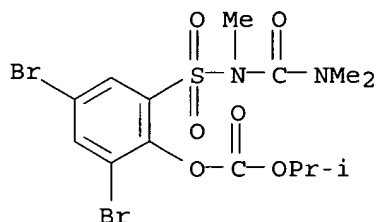
IT **62572-95-6P 62572-98-9P 62572-99-0P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and acaricidal activity of)

RN 62572-95-6 CAPLUS
 CN Carbonic acid, 2-bromo-4-chloro-6-[[[(dimethylamino)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



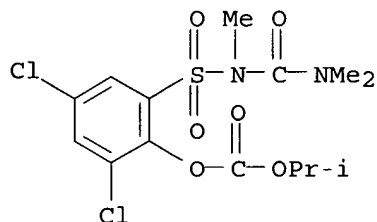
RN 62572-98-9 CAPLUS

CN Carbonic acid, 2,4-dibromo-6-[[[(dimethylamino)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 62572-99-0 CAPLUS

CN Carbonic acid, 2,4-dichloro-6-[[[(dimethylamino)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 99 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:432660 CAPLUS

DOCUMENT NUMBER: 85:32660

TITLE: Isocyanates

INVENTOR(S): Hagemann, Hermann

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 9 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2449365	A1	19760422	DE 1974-2449365	19741017
PRIORITY APPLN. INFO.:			DE 1974-2449365	A 19741017
AB RSO2NR1CONCO (I; R = Me, Ph, 4-MeC6H4; R1 = Me, Me2CH, Et, allyl, Ph) were				

prepared in 78-93% yield by the reaction of RSO_2NHR_1 with ClCONCO in PhCl at 130° . I are useful as water-binding agents in polyurethanes.

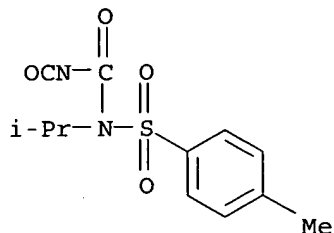
IT 59639-93-9P 59639-94-0P 59639-95-1P

59639-97-3P 59639-98-4P 59639-99-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

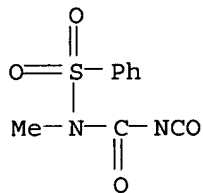
RN 59639-93-9 CAPLUS

CN Benzenesulfonamide, N-(isocyanatocarbonyl)-4-methyl-N-(1-methylethyl)-
(9CI) (CA INDEX NAME)



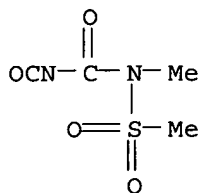
RN 59639-94-0 CAPLUS

CN Benzenesulfonamide, N-(isocyanatocarbonyl)-N-methyl- (9CI) (CA INDEX NAME)



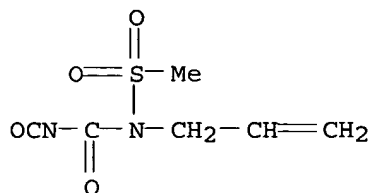
RN 59639-95-1 CAPLUS

CN Methanesulfonamide, N-(isocyanatocarbonyl)-N-methyl- (9CI) (CA INDEX NAME)



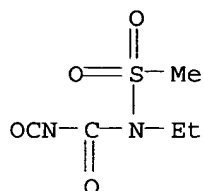
RN 59639-97-3 CAPLUS

CN Methanesulfonamide, N-(isocyanatocarbonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



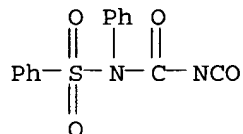
RN 59639-98-4 CAPLUS

CN Methanesulfonamide, N-ethyl-N-(isocyanatocarbonyl)- (9CI) (CA INDEX NAME)



RN 59639-99-5 CAPLUS

CN Benzenesulfonamide, N-(isocyanatocarbonyl)-N-phenyl- (9CI) (CA INDEX NAME)



L69 ANSWER 100 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:422318 CAPLUS
Correction of: 1976:60566DOCUMENT NUMBER: 85:22318
Correction of: 84:60566

TITLE: Polyethers containing perfluoroalkyl groups

INVENTOR(S): Meussdoerffer, Johann N.; Niederpruem, Hans; Dahmm, Manfred

PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 15 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2238740		19740207	DE 1972-2238740	19720805

AB The title compds. R₁SO₂N(R₂)CO(OZ)nOR₃ (R₁ = C₁-20 perfluoroalkyl; R₂ = H, alkyl, CO₂(OZ)nOR₃; R₃ = alkyl, cycloalkyl, CON(R₂)SO₂R₁; Z = alkylene), useful as foam stabilizers for polyurethane foams, are prepared by reaction of R₁SO₂NR₂H with polyalkylene glycol chloroformates. Thus, stirring 250 g polyethylene-polypropylene glycol monobutyl ether chloroformate (mol.

weight .apprx.1500, hydrolyzable Cl 2.2%), 77.4 g perfluorooctanesulfonamide, 22 ml Et3N, and 200 ml PhMe 30 min at .apprx.80° gives an oily product [59355-79-2], hydrolyzable Cl content 0.05%, solidifying slowly to a wax. A polyurethane containing 0.5% of this product gives a fine-porous foam, while in the absence of stabilizer the foam collapses.

IT 59355-81-6

RL: USES (Uses)

(stabilizers, for polyurethane foam manufacture)

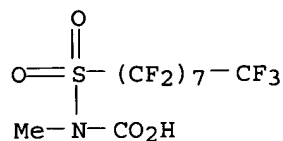
RN 59355-81-6 CAPLUS

CN Oxirane, methyl-, polymer with oxirane, mono[[(heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 123748-41-4

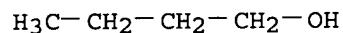
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3

CMF C4 H10 O



CM 3

CRN 9003-11-6

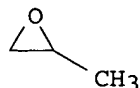
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 4

CRN 75-56-9

CMF C3 H6 O



CM 5

CRN 75-21-8

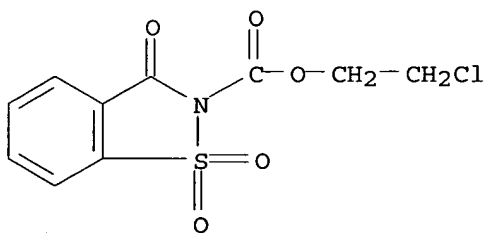
CMF C2 H4 O



L69 ANSWER 101 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1975:140119 CAPLUS
 DOCUMENT NUMBER: 82:140119
 TITLE: 2-Substituted-1,2-benzisothiazoline-3-oxo-1,1-dioxide
 INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi; Ito, Hideo
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 6 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49020779	B4	19740527	JP 1970-119663	19701228
PRIORITY APPLN. INFO.:			JP 1970-119663	A 19701228

GI For diagram(s), see printed CA Issue.
 AB Benzoisothiazolinones I (R1 = Me, ClCH2CH2, Me2CH, Ph, 4-BrC6H4, 4-ClC6H4, 4-MeC6H4, 4-O2NC6H4), useful as bactericides, were prepared by alkoxy carbonylation of saccharin (II) by R1O2CCl with NaCO3 or NaHCO3. Thus, 18.3 g II in MeCN was stirred with ClCH2CH2O2Cl and 8.4 g NaHCO3 2 hr at 40° to give 81% I (R1 = ClCH2CH2).
 IT **54952-63-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of bactericidal)
 RN 54952-63-5 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, 2-chloroethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



✓ L69 ANSWER 102 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1975:57814 CAPLUS
 DOCUMENT NUMBER: 82:57814
 TITLE: Synthesis of derivatives of S-[1-(N-methyl-N-methylsulfonyl)carbamoylethyl]thio- and -dithiophosphoric acid
 AUTHOR(S): Mandel'baum, Ya. A.; Itskova, A. L.; Mel'nikov, N. N.; Gar, K. A.; Bokarev, E. M.
 CORPORATE SOURCE: USSR
 SOURCE: Khimicheskie Sredstva Zashchity Rastenii (1972), 2,

302-5

CODEN: KSZRA6

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

AB Thiophosphoric acids (RO)R₁P(X)SCHMeCONMe(SO₂Me) I (R = Me, Et, Me₂N, PrNH; R₁ = MeO, EtO, Me, Et; X = O, S) were prepared in 56-92.3% yields by reaction of (RO)R₁P(X)SM (M = Metal) with MeCHClCONMe(SO₂Me). In acaricidal toxicity tests, some I were twice as effective as (MeO)₂P(S)OC₆H₄NO₂-p.

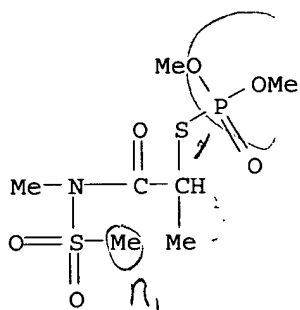
IT 54905-17-8P 54905-18-9P 54905-19-0P

54905-20-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and acaricidal properties of)

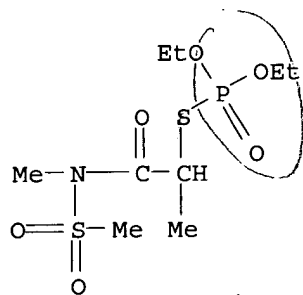
RN 54905-17-8 CAPLUS

CN Phosphorothioic acid, O,O-dimethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



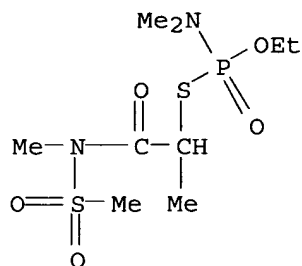
RN 54905-18-9 CAPLUS

CN Phosphorothioic acid, O,O-diethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



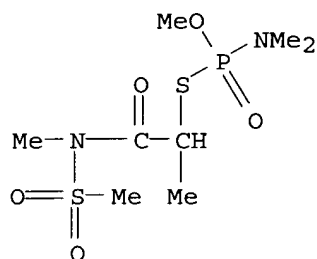
RN 54905-19-0 CAPLUS

CN Phosphoramidothioic acid, dimethyl-, O-ethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



RN 54905-20-3 CAPLUS

CN Phosphoramidothioic acid, dimethyl-, O-methyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)

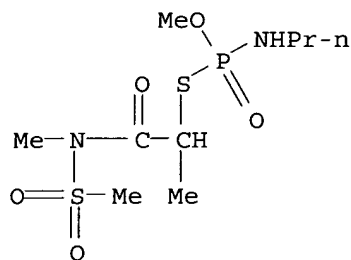


IT 54905-21-4P 54905-22-5P 54905-23-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

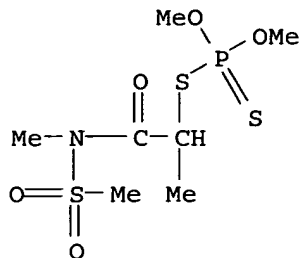
RN 54905-21-4 CAPLUS

CN Phosphoramidothioic acid, propyl-, O-methyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)

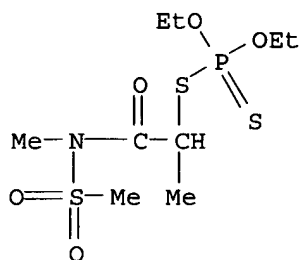


RN 54905-22-5 CAPLUS

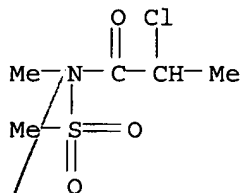
CN Phosphorodithioic acid, O,O-dimethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



RN 54905-23-6 CAPLUS
 CN Phosphorodithioic acid, O,O-diethyl S-[1-methyl-2-methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



IT 38994-93-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with thiophosphate)
 RN 38994-93-3 CAPLUS
 CN Propanamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)

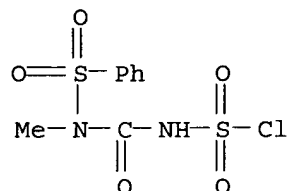


L69 ANSWER 103 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1974:108106 CAPLUS
 DOCUMENT NUMBER: 80:108106
 TITLE: Organic sulfonyl isocyanates
 AUTHOR(S): Appel, Rolf; Montenarh, Mathias
 CORPORATE SOURCE: Anorg.-Chem. Inst., Univ. Bonn, Bonn, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1974), 107(2), 706-9
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB Reaction of RSO₂NHR₁ (R = Me, Ph, or 4-MeC₆H₄; R₁ = H or Me) with ClSO₂NCO in C₆H₆ under ice cooling or at 90-5° gave the corresponding RSO₂NR₁CONHSO₂Cl (I) or RSO₂NCO (II), resp. Hydrolysis or refluxing of I in C₆H₆ gave RSO₂NR₁CONH₂ or II, resp.
 IT 52072-79-4P 52072-80-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

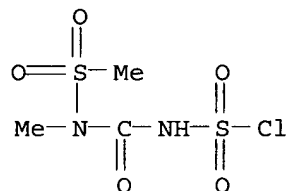
RN 52072-79-4 CAPLUS

CN Sulfamoyl chloride, [[methyl(phenylsulfonyl)amino]carbonyl]- (9CI) (CA
INDEX NAME)



RN 52072-80-7 CAPLUS

CN Sulfamoyl chloride, [[methyl(methylsulfonyl)amino]carbonyl]- (9CI) (CA
INDEX NAME)



L69 ANSWER 104 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1973:551614 CAPLUS
 DOCUMENT NUMBER: 79:151614
 TITLE: Crosslinking of hydrophilic colloids
 INVENTOR(S): Kyburz, Rolf
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
 SOURCE: Ger. Offen., 44 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2309098	A1	19730913	DE 1973-2309098	19730223
CH 563598	A	19750630	CH 1972-2722	19720225
FR 2173009	A1	19731005	FR 1973-4535	19730208
CA 1008848	A1	19770419	CA 1973-163607	19730213
US 4001201	A	19770104	US 1973-333247	19730216
US 333247	A1	19760316		
GB 1416462	A	19751203	GB 1973-8287	19730220
GB 1416463	A	19751203	GB 1974-52240	19730220
BE 795839	A1	19730823	BE 1973-127993	19730223
IT 977477	A	19740910	IT 1973-48413	19730223
JP 48095450	A2	19731207	JP 1973-21797	19730224
JP 57024535	B4	19820525		
PRIORITY APPLN. INFO.:			CH 1972-2722	A 19720225

AB Organic crosslinking agents containing sulfonyl linkages are used as hardeners in

photog. gelatin emulsions. Thus, 0.1 mole $\text{H}_2\text{NSO}_2\text{NH}_2$, 1.1 mole 3-chloropropionyl chloride, and 0.3 ml SbCl_5 are reacted at $70-80^\circ$, and the $(\text{ClCH}_2\text{CO}_2\text{NH})_2\text{SO}_2$ (I) produced is collected. To 6 ml 6% aqueous gelatin are added 1 ml 1% aqueous dye solution, 5 ml H_2O , and 1 ml 0.0025M I. This solution is coated on a cellulose triacetate support, and the swelling of the coating under various temperature and humidity conditions measured. Improved resistance to swelling is observed compared to a I-free solution

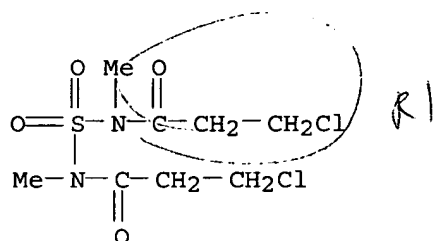
IT 50695-61-9

RL: USES (Uses)

(photographic hardening agent)

RN 50695-61-9 CAPLUS

CN Propanamide, N,N'-sulfonylbis[3-chloro-N-methyl- (9CI) (CA INDEX NAME)



L69 ANSWER 105 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1973:124224 CAPLUS

DOCUMENT NUMBER: 78:124224

TITLE: Syntheses of imide derivatives

AUTHOR(S): Kato, Kiyoshi; Yoshida, Matayasu; Ishikawa, Yoichiro

CORPORATE SOURCE: Gov. Ind. Res. Inst., Osaka, Japan

SOURCE: Yuki Gosei Kagaku Kyokaishi (1972), 30(10), 897-9

CODEN: YGKKAE; ISSN: 0037-9980

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

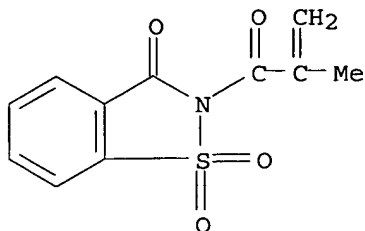
AB 2-cis- Δ^4 -Tetrahydrophthalimidoethyl (70.2%), phthalimidomethyl (85.7%), 2-phthalimidoethyl (64.4%), and 2-naphthalimidoethyl (100%) acrylates, 2-cis- Δ^4 -tetrahydrophthalimidoethyl (72.6%), 2-naphthalimidoethyl (100%), and 2-o-sulfobenzimidomethyl methacrylates (74.3%), N-acryloylphthalimide (72.1%), N-methacryloyl succinimide (93.4%), N-methacryloylphthalimide (94.4%) and N-methacryloyl-o-sulfobenzimidomethyl (93.6%) were prepared by the condensation of acryloyl chloride or methacryloyl chloride with the imidoalc. or imide and NEt_3 at $20-40^\circ$ in MeCN, Me_2CO , dioxane, benzene, or DMF. 2-Phthalimidoethyl methacrylate (93.4%) was prepared by esterification of methacrylic acid with N-(2-hydroxyethyl)phthalimide in the presence of p-MeC₆H₄SO₃H and p-MeC₆H₄SO₃H and p-(HO)₂C₆H₄ in benzene.

IT 40581-15-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

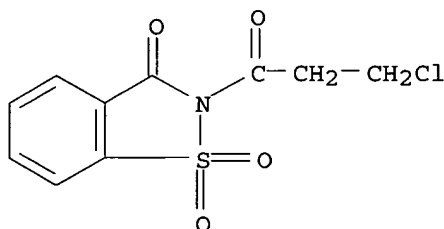
RN 40581-15-5 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-methyl-1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



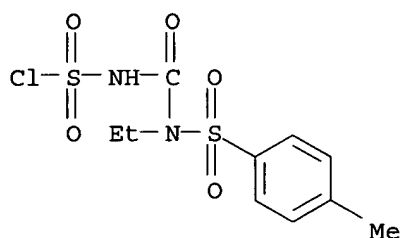
L69 ANSWER 106 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1972:564667 CAPLUS
 DOCUMENT NUMBER: 77:164667
 TITLE: 2-Substituted 1,2-benzisothiazolin-3-one 1,1-dioxides
 INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 47020158	B4	19720927	JP 1971-10094	19710227
GI	For diagram(s), see printed CA Issue.				
AB	The title compds. (I), antibacterial and antifungal for plants, were prepared by treating saccharin (II) with chloroformates. Thus, II was treated with ClCOEt in C ₆ H ₆ in the presence of pyridine to give 92.1 I (R = Et). I (R = Me; (CH ₂) ₂ Cl, iso-Pr, Ph; p-MeC ₆ H ₄) were similarly prepared				
IT	37952-91-3P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	37952-91-3 CAPLUS				
CN	1,2-Benzisothiazol-3(2H)-one, 2-(3-chloro-1-oxopropyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)				

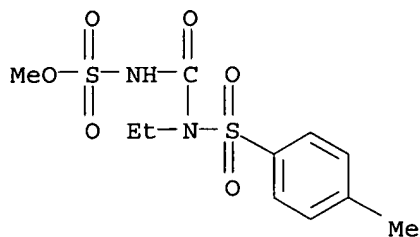


L69 ANSWER 107 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1972:539387 CAPLUS
 DOCUMENT NUMBER: 77:139387
 TITLE: Alkoxysulfonyl isocyanates
 AUTHOR(S): Lattrell, Rudolf; Lohaus, Gerhard
 CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/M., Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1972), 105(9), 2800-4
 CODEN: CHBEAM; ISSN: 0009-2940

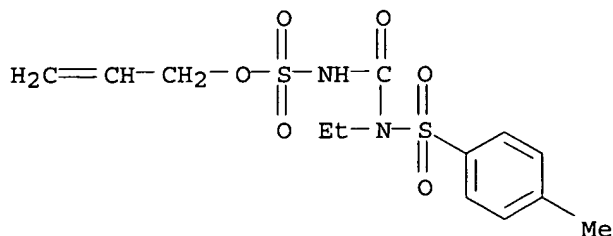
DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB Highly reactive title compds. ROSO₂NCO (R = Me, Et, Pr, Me₂CHCH₂, n-C₇H₁₇, CH₂:CHCH₂, or MeOCH₂CH₂) were prepared in ≤77% yield by thermal decomposition of ROSO₂NHCOR₁ (I, R₁ = 2,4,6-Cl₃C₆H₂O, 2,6,4-Cl₂PhC₆H₂O, p-MeC₆H₄SO₂NEt, or succinimido). I were obtained by reaction of ClSO₂NCO with R₁H via ClSO₂NHCOR₁, which then reacted with ROH.
 IT 37477-72-8P 37477-77-3P 37602-06-5P
 37602-09-8P 37602-10-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 37477-72-8 CAPLUS
 CN Sulfamoyl chloride, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-
 (9CI) (CA INDEX NAME)



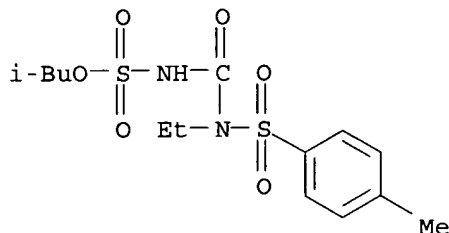
RN 37477-77-3 CAPLUS
 CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



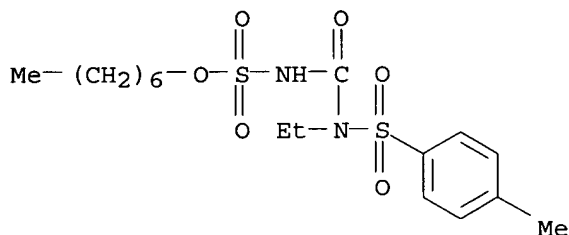
RN 37602-06-5 CAPLUS
 CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



RN 37602-09-8 CAPLUS
 CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



RN 37602-10-1 CAPLUS
 CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, heptyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 108 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:496207 CAPLUS

DOCUMENT NUMBER: 77:96207

TITLE: Polarographic study of sulfonamides. I.

N-carbonyl-containing alkyl(or aryl)sulfonamides

AUTHOR(S): Supin, G. S.; Itskova, A. L.; Mandel'baum, Ya. A.

CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Khim. Sredstv Zashch. Rast., Moscow, USSR

SOURCE: Zhurnal Obshchei Khimii (1972), 42(6), 1186-90

CODEN: ZOKHA4; ISSN: 0044-460X

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Polarog. data are tabulated for 34 compds. of general types $RSO_2NR_1R_2$ ($R = \text{Me, Ph, p-ClC}_6\text{H}_4, \text{p-MeC}_6\text{H}_4, 2,4\text{-Cl}_2\text{C}_6\text{H}_3$; $R_1 = \text{H, Me, Et, Pr, Bu, CHMe}_2$; $R_2 = \text{Et, Pr, COCH}_2\text{Cl, COCHMeCl}$), $RSO_2NR_1\text{COCH}_2\text{SP(X)(OEt)}_2$ ($R = \text{Me, Et, p-ClC}_6\text{H}_4$; $R_1 = \text{H, Me, Et, Pr, Bu}$; $X = \text{O, S}$), and $\text{MeSO}_2NR_1\text{COCH}_2\text{SP(O)(OEt)R}_3$ ($R_3 = \text{Ph, NHPr, NHCH}_2\text{CHMe}_2, \text{NMe}_2, \text{NEt}_2, \text{NHET}$). Sulfonamides with electron-acceptor groups in either part of the mol. are reduced polarog. by cleavage of the S-N bond, and the half-wave potentials or wave heights are independent of the pH provided that the N atom is completely substituted; the amides with 1 NH residue can dissociate by loss of H^+ and their anionic form is incapable of reduction, so that with pH >3-4 their polarog. waves become kinetic and vanish at pH >7. Derivs. of phosphoromono(and di)thioic acids show evidence of transmission of electronic substituent effects through the P atom. Increased chain length of alkyl groups in the amide portion facilitates the polarog. reduction of the

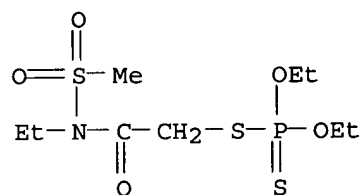
amides owing to increased electron donor ability of the bridge.

IT 22608-14-6 22726-07-4 38994-88-6
 38994-89-7 38994-90-0 38994-91-1
 38994-92-2 38994-93-3 38994-94-4
 38994-95-5 38994-98-8 38994-99-9
 38995-00-5 38995-01-6 38995-02-7
 38995-03-8 38995-04-9 38995-06-1
 38995-07-2 38995-08-3 38995-09-4
 38995-10-7 38995-11-8 38995-12-9
 38995-13-0 38995-14-1

RL: PROC (Process)
 (polarography of)

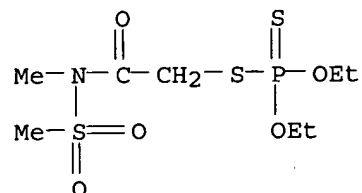
RN 22608-14-6 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



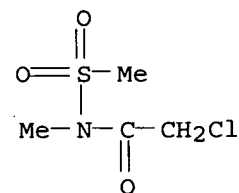
RN 22726-07-4 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



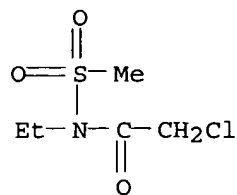
RN 38994-88-6 CAPLUS

CN Acetamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



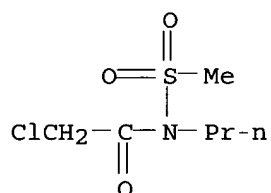
RN 38994-89-7 CAPLUS

CN Acetamide, 2-chloro-N-ethyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



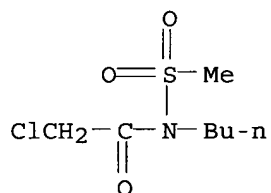
RN 38994-90-0 CAPLUS

CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-propyl- (9CI) (CA INDEX NAME)



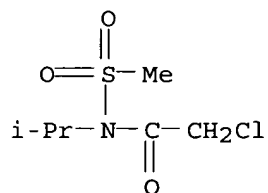
RN 38994-91-1 CAPLUS

CN Acetamide, N-butyl-2-chloro-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



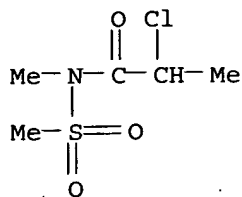
RN 38994-92-2 CAPLUS

CN Acetamide, 2-chloro-N-(1-methylethyl)-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



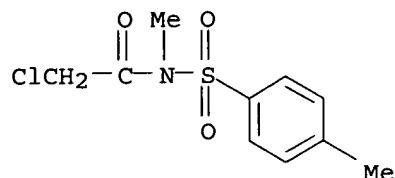
RN 38994-93-3 CAPLUS

CN Propanamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



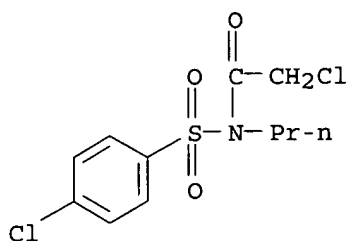
RN 38994-94-4 CAPLUS

Acetamide, 2-chloro-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA
INDEX NAME)



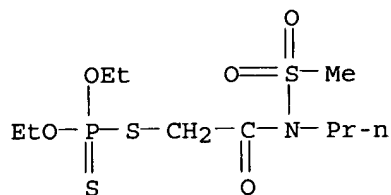
RN 38994-95-5 CAPLUS

Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-propyl- (9CI) (CA
INDEX NAME)



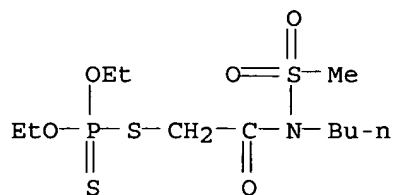
RN 38994-98-8 CAPLUS

Phosphorodithioic acid, O,O-diethyl S-[2-[(methylsulfonyl)propylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



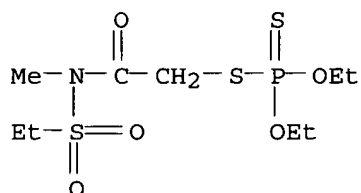
RN 38994-99-9 CAPLUS

Phosphorodithioic acid, S-[2-[butyl(methylsulfonyl)amino]-2-oxoethyl]
O,O-diethyl ester (9CI) (CA INDEX NAME)



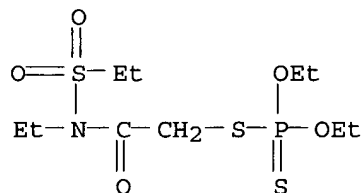
RN 38995-00-5 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[(ethylsulfonyl)methylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



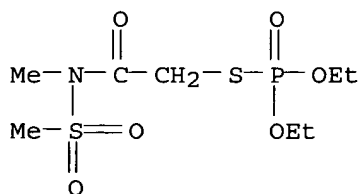
RN 38995-01-6 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[ethyl(ethylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



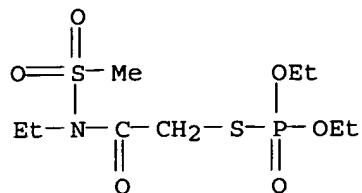
RN 38995-02-7 CAPLUS

CN Phosphorothioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



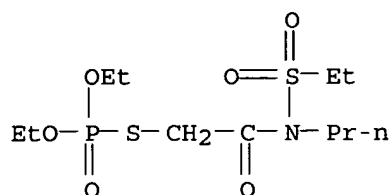
RN 38995-03-8 CAPLUS

CN Phosphorothioic acid, O,O-diethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



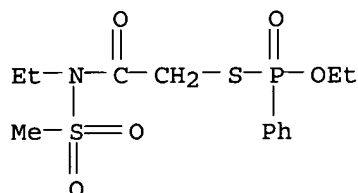
RN 38995-04-9 CAPLUS

CN Phosphorothioic acid, O,O-diethyl S-[2-[(ethylsulfonyl)propylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



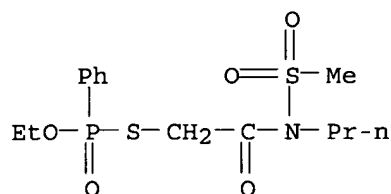
RN 38995-06-1 CAPLUS

CN Phosphonothioic acid, phenyl-, O-ethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



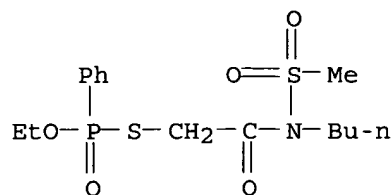
RN 38995-07-2 CAPLUS

CN Phosphonothioic acid, phenyl-, O-ethyl S-[2-[(methylsulfonyl)propylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



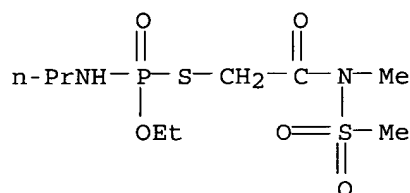
RN 38995-08-3 CAPLUS

CN Phosphonothioic acid, phenyl-, S-[2-[butyl(methylsulfonyl)amino]-2-oxoethyl] O-ethyl ester (9CI) (CA INDEX NAME)



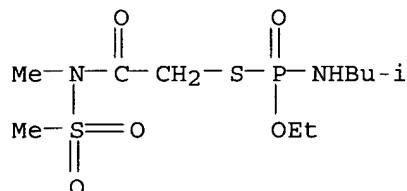
RN 38995-09-4 CAPLUS

CN Phosphoramidothioic acid, propyl-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



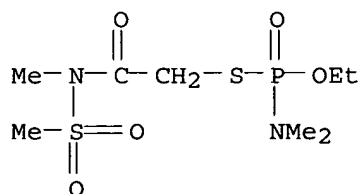
RN 38995-10-7 CAPLUS

CN Phosphoramidothioic acid, (2-methylpropyl)-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



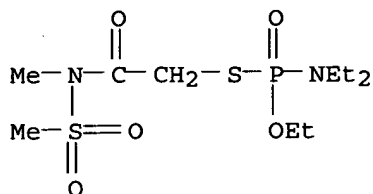
RN 38995-11-8 CAPLUS

CN Phosphoramidothioic acid, dimethyl-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



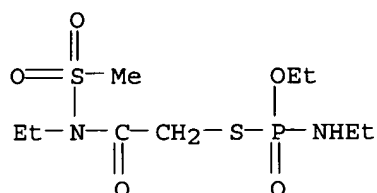
RN 38995-12-9 CAPLUS

CN Phosphoramidothioic acid, diethyl-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



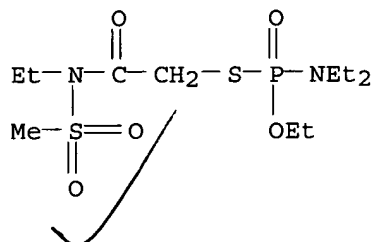
RN 38995-13-0 CAPLUS

CN Phosphoramidothioic acid, ethyl-, O-ethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



RN 38995-14-1 CAPLUS

CN Phosphoramidothioic acid, diethyl-, O-ethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



L69 ANSWER 109 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:109224 CAPLUS

DOCUMENT NUMBER: 76:109224

TITLE: Acaricide

INVENTOR(S): Itskova, A. L.; Gar, K. A.; Mandel'baum, Ya, A.; Fetisova, V. F.; Orlova, V. I.

SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1971, 48(32), 202.

CODEN: URXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 267244		19711028	SU	19680916

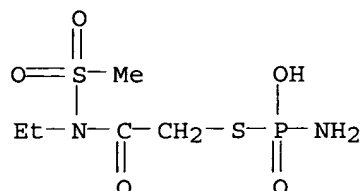
AB The thiophosphates I R = Me or Et, R1 = Me, Et, Pr, or iso-Pr, and R2 = H, Me or Et) were used as acaricides especially against cobweb mites.

IT 36525-37-8D, Phosphoramidothioic acid, S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester, derivatives

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(acaricides)

RN 36525-37-8 CAPLUS

CN Phosphoramidothioic acid, S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



L69 ANSWER 110 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:14533 CAPLUS

DOCUMENT NUMBER: 76:14533

TITLE: 2-Carbamoyl-1,2-benzisothiazolin-3-one 1,1-dioxides

INVENTOR(S): Mine, Seizo; Shioyama, Itaru

PATENT ASSIGNEE(S): Japan Agricultural Chemicals and Insecticides Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 6 pp.

CODEN: JAXXAD

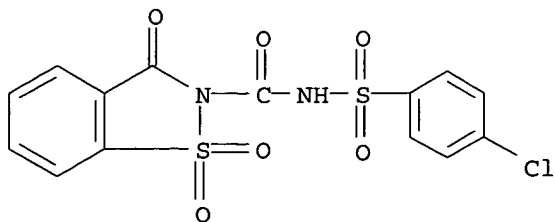
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

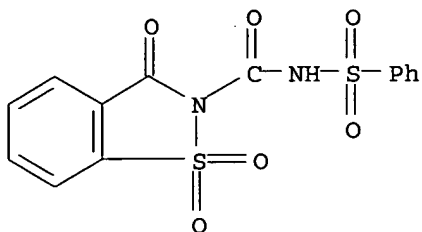
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

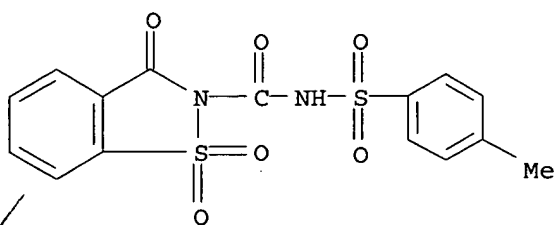
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 46036613	B4	19711027	JP	19691203
GI	For diagram(s), see printed CA Issue.				
AB	I, useful as a fungicide for phytopathogenic fungi, was prepared Thus, 2-chlorocarbonylsaccharine was gradually added to a solution of PhCH2NH2 in dioxane and the mixture stirred 2 hr to give 71% I (R1 = PhCH2, R2 = H). Similarly prepared were 65 more I.				
IT	28946-22-7P 28946-23-8P 28946-24-9P 35131-57-8P 35131-58-9P 35131-59-0P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	28946-22-7 CAPLUS				
CN	1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)				



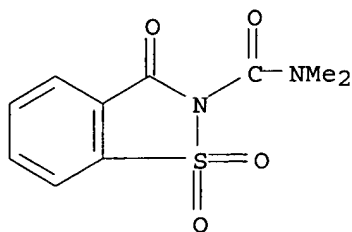
RN 28946-23-8 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-,
 1,1-dioxide (9CI) (CA INDEX NAME)



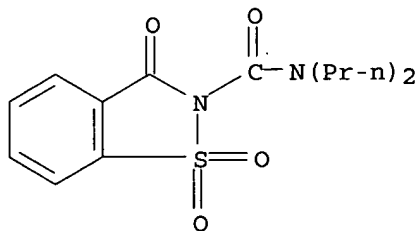
RN 28946-24-9 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-
 , 1,1-dioxide (9CI) (CA INDEX NAME)



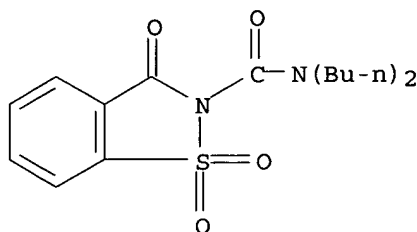
✓ RN 35131-57-8 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dimethyl-3-oxo-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



✓ RN 35131-58-9 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N,N-dipropyl-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



RN 35131-59-0 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dibutyl-3-oxo-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



L69 ANSWER 111 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1971:551529 CAPLUS
 DOCUMENT NUMBER: 75:151529
 TITLE: N,N-Disubstituted trifluoromethanesulfonamides
 INVENTOR(S): Moore, George G. I.; Conway, Alvin C.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3609187	A	19710928	US 1969-816090	19690414

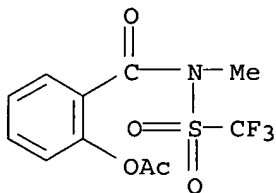
PRIORITY APPLN. INFO.: US 1969-816090 A 19690414

GI For diagram(s), see printed CA Issue.

AB N-Aroyl-N-alkyl- and N-aroyl-N-alkenyltrifluoromethanesulfonamides useful as longlasting anticonvulsant agents were prepared by treating N-alkyl and N-alkenyl-trifluoromethanesulfonamides with aroyl halides or anhydrides. For example, 12.1 g Et3N was added to 16.4 g N-methyltrifluoromethanesulfonamide and 17.5 g 3-chlorobenzoyl chloride in 300 ml CH2Cl2 to give N-(3-chlorobenzoyl)-N-methyltrifluoromethanesulfonamide (I).

IT **34310-38-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 34310-38-8 CAPLUS
 CN Salicylamide, N-methyl-N-[(trifluoromethyl)sulfonyl]-, acetate (ester)
 (8CI) (CA INDEX NAME)



L69 ANSWER 112 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1971:63950 CAPLUS
 DOCUMENT NUMBER: 74:63950
 TITLE: Dithiocarbamates
 INVENTOR(S): Konecny, Vaclav
 SOURCE: Czech., 4 pp.
 CODEN: CZXXA9
 DOCUMENT TYPE: Patent
 LANGUAGE: Czech
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

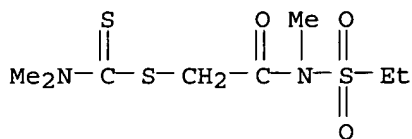
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 134155		19691115	CS	19680129

AB Title compds., R1R2NCS2CH(R3)(CH2)nCOR4, with insecticide, fungicide, and herbicide activity, are obtained by reaction of R1R2NH, CS2, and XCH(R3)(CH2)nCOR4 (X = Cl, Br). Thus, an aqueous solution of BrCH2CH2CO2Na was stirred with CS2, the mixture treated dropwise with aqueous Me2NH and heated at 65° to give Me2NCS2CH2CH2CO2Na. Similarly prepared were 10 addnl. products.

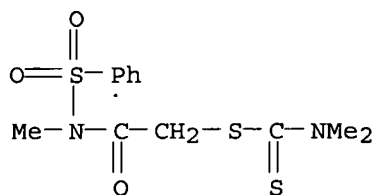
IT **30895-93-3P 30895-94-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 30895-93-3 CAPLUS

CN Carbamodithioic acid, dimethyl-, 2-[(ethylsulfonyl)methylamino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



RN 30895-94-4 CAPLUS
 CN Carbamodithioic acid, dimethyl-, 2-[methyl(phenylsulfonyl)amino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 113 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1970:425448 CAPLUS
 DOCUMENT NUMBER: 73:25448
 TITLE: Fungicidal 2-(ar)alkylcarbamoylsaccharins
 INVENTOR(S): Shioyama, Osamu; Mine, Seizo; Murata, Kikuzo
 PATENT ASSIGNEE(S): Japan Agricultural Chemicals Co., Ltd.
 SOURCE: Ger. Offen., 38 pp.
 CODEN: GWXXBX

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1953422	A	19700514	DE 1969-1953422	19691023
DE 1953422	B2	19740801		
DE 1953422	C3	19750327		
JP 48040734	B4	19731203	JP 1968-77381	19681025
GB 1278111	A	19720614	GB 1969-1278111	19691021
US 3699228	A	19721017	US 1969-868236	19691021
PRIORITY APPLN. INFO.:			JP 1968-77381	A 19681025
			JP 1969-71023	A 19690909

GI For diagram(s), see printed CA Issue.

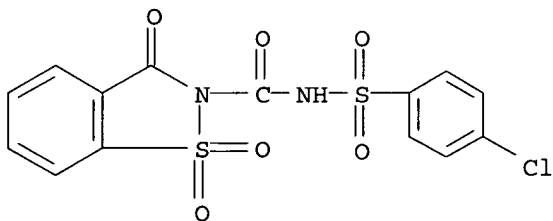
AB The fungicidal title compds. (I) were prepared in 34.8-97.0% yield either by reaction of the corresponding saccharin with RNCO in the presence of Et₃N or pyridine or by reaction of the Na salt of saccharin and COCl₂ via the chlorocarbonyl derivative and subsequent reaction with the corresponding amines. Among the 68 compds. prepared were the following I (X, R, and R₁ given): O, Me, H; O, Ph, H; O, CH₂Ph, H; O, CHMePh, H; O, CH₂Ph, 6-Cl; O, Bu, H; O, Pr, H; O, CH₂C₆H₄Me-p, H; O, CH₂CH₂Ph, H; O, C₆H₄Me-p, H; O, Me, 5-MeO; S, CH₂Ph, H. Compns. of fungicides containing I were reported. I had fungicidal activities especially against *Piricularia oryzae*, *Cladosporium cucumerinum*, and *Colletotrichum langenarium*.

IT **28946-22-7P 28946-23-8P 28946-24-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

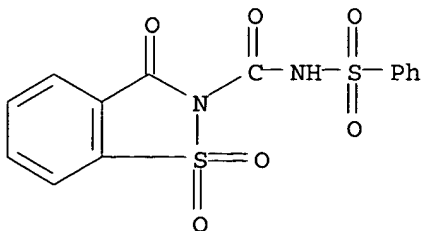
RN 28946-22-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

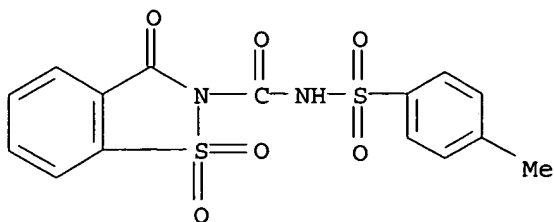


RN 28946-23-8 CAPLUS

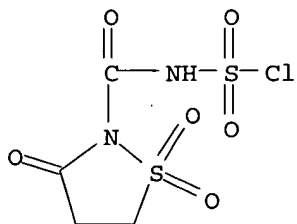
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 28946-24-9 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 114 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1970:100575 CAPLUS
 DOCUMENT NUMBER: 72:100575
 TITLE: Radical-induced reactions of olefins with chlorosulfonylisocyanate
 AUTHOR(S): Guenther, Dieter; Soldan, Fritz
 CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/M.-Hoechst, Fed. Rep. Ger.
 SOURCE: Chemische Berichte (1970), 103(3), 663-9
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 72:100575
 GI For diagram(s), see printed CA Issue.
 AB Reaction of excess ClSO₂NCO with RCH:CHR₁ in the presence of free-radical producing peroxides gave 50-90% ClCHR₁CHRSO₂NCO [where R = H and R₁ = H, Me, Et, or Bu; R = R₁ = Me; or (R, R₁ =) (CH₂)₄]. On the other hand, an excess of olefins in this reaction yielded 60-80% substituted N-(2-chloroethyl)-3-oxoisothiazolidine 1,1-dioxides (I). CH₂:CHCl and excess ClSO₂NCO gave a mixture of the telomers, Cl[CHClCH₂]_nSO₂NCO (where n = 1, 2, or 3).
 IT **26178-90-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 26178-90-5 CAPLUS
 CN 2-Isothiazolidinecarboxamide, N-(chlorosulfonyl)-3-oxo-, 1,1-dioxide (8CI) (CA INDEX NAME)



L69 ANSWER 115 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1970:22825 CAPLUS
 DOCUMENT NUMBER: 72:22825

TITLE: Surface film former to retard evaporation and extinguish hydrocarbon fires
 INVENTOR(S): Francen, Vernon L.
 PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.
 SOURCE: Ger. Offen., 36 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1920625	A	19691106	DE 1969-1920625	19690418
DE 1920625	B2	19760909		
SE 365532	B	19740325	SE 1969-5001	19690409
NL 6906068	A	19691021	NL 1969-6068	19690418
NL 161679	B	19791015		
FR 2009827	A5	19700213	FR 1969-12138	19690418
GB 1264681	A	19720223	GB 1969-1264681	19690418
BR 6908211	A0	19730104	BR 1969-208211	19690418
JP 48023161	B4	19730711	JP 1969-29715	19690418

PRIORITY APPLN. INFO.:

US 1968-722630 A 19680419

AB A H₂O-soluble salt of a fluoroaliphatic wetting compound of the formula RfQmZ (in which Rf is a fluorinated, saturated, monovalent nonaromatic C₃-20 radical in which the C atoms are substituted only by F, Cl, or H with ≤1 Cl or H atom on 2 C atoms and 1 O or N atom bound to a C atom may be present; Qm, m = 0-2, represents an alkylene-, arylene-, sulfonamidoalkylene-, or carboxamidoalkylene radical; and Z represents a H₂O-soluble anionic, cationic, or nonionic radical) is combined with a slightly H₂O-soluble hydrocarbon wetting agent which is >0.02% soluble in H₂O at 25° and capable of promoting the film formation of a normally nonfilm-forming fluorohydrocarbon wetting compound in <60 sec., a partially hydrolyzed protein, and H₂O. This mixture is used as a strong film-forming blockade for extinguishing hydrocarbon fires and evaporation of flammable gases. Thus, a concentration of 0.36% C₈F₁₇SO₂N(C₂H₅)C₂H₄OPO(OH)₂ plus 0.15% Pluronic P-94 formed a covering film in 45 sec. with no flashback. Data are given for various fluorohydrocarbons, wetting agents, stabilizers, and hydrolyzed proteins.

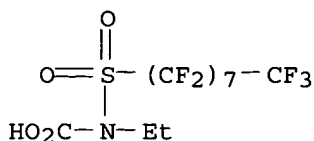
IT 27140-05-2

RL: USES (Uses)

(fire extinguishing with wetting agents and)

RN 27140-05-2 CAPLUS

CN Carbamic acid, ethyl[(heptadecafluorooctyl)sulfonyl]-, potassium salt (8CI) (CA INDEX NAME)



● K

L69 ANSWER 116 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1969:512627 CAPLUS
 DOCUMENT NUMBER: 71:112627
 TITLE: N-Methyl-4-chloro-3-sulfamoylbenzenesulfonamides
 PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.
 SOURCE: Fr., 6 pp.
 CODEN: FRXXAK
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1535781		19680809	FR	
DE 1568552			DE	
GB 1188158			GB	
US 3557153		19710000	US	
			DE	19660713

PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.

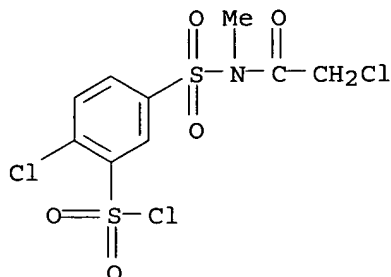
AB N-Methyl-4-chloro-3-(chlorosulfonyl)benzenesulfonamide (I) is acylated to give II compds. which are treated with NH₃ to give diamides III. A mixture of 30.4 g. I and 60 ml. Ac₂O is heated 1 hr. at 80° to give 82% 1-chloro-2-chlorosulfonyl-4-(N-methyl-N-acetylsulfamoyl)-benzene (IV), m. 141-2°. A solution of 17.3 g. IV in 150 ml. tetrahydrofuran is treated with 20% NH₃ at 15-20° and the mixture is worked up to give 80% 1-chloro-2-sulfamoyl-4-(N-methyl-N-acetylsulfamoyl)benzene, m. 200°. Similarly prepared are the following II and III (R, m.p. II compound, m.p. III compound, and % yield III compound given): CH₂Cl, 148°, 173-4°, 55; Et, 119°, 172-3°, 60; Pr, 110-11°, 168-9°, 58; MeCH:CH, , 162-3°, 71; 2-furyl, 99-100°, 195°, 54; Ph, 172-3°, 227°, 78; cyclopentylmethyl, 85-96°, 95-6°, 69; PhCH:CH, 178-9°, 196-7°, 56; hexyl, 96-8°, 183-4°, ; iso-Pr, 124°, 165-6°, ; Bu, 98, 152-3°, ; iso-Bu, 122-3°, 180-1°, ; amyl, 104°, 156-7°, ; n-heptyl, 96-8°, 116-18°, ; PhCH₂, 205-7°, 86-8°; -, PhCH₂CH₂, 132°, 133°, ; and the following compds. (m.p. given): 4,3-Cl(ClSO₂)C₆H₃SO₂NEtAc, 104°; 4,3-Cl(H₂NSO₂)-C₆H₃SO₂NEtAc, 195-6°; 1-chloro-2-chlorosulfonyl-4-(N-tetrahydrofurfuryl-N-acetylsulfamoyl)benzene, 121°; 1-chloro-2-sulfamoyl-4-(N-tetrahydrofurfuryl-N-acetylsulfamoyl)benzene, 137-9°.

IT 24018-25-5P 24028-64-6P

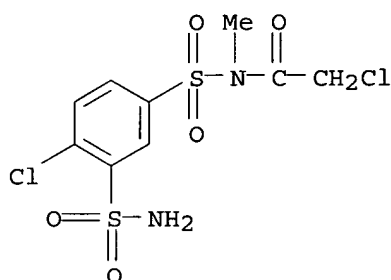
RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 24018-25-5 CAPLUS

CN Benzenesulfonyl chloride, 2-chloro-5-[(chloroacetyl)methylsulfamoyl]-
 (8CI) (CA INDEX NAME)



RN 24028-64-6 CAPLUS
 CN Acetamide, 2-chloro-N-[(4-chloro-3-sulfamoylphenyl)sulfonyl]-N-methyl-
 (8CI) (CA INDEX NAME)

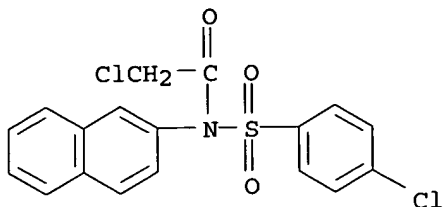


L69 ANSWER 117 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1969:76240 CAPLUS
 DOCUMENT NUMBER: 70:76240
 TITLE: Selective toxicity. IX. Relation between chemical structure and selective antimicrobial activities of haloacetamide derivatives
 AUTHOR(S): Noguchi, Teruhisa; Hashimoto, Yoshinobu; Mori, Toshiro; Kano, Saburo
 CORPORATE SOURCE: Nippon Soda Co., Ltd., Oisomachi, Japan
 SOURCE: Yakugaku Zasshi (1968), 88(12), 1620-37
 CODEN: YKKZAJ; ISSN: 0031-6903
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB Antimicrobial activity was examined for ArNRCOCH2X where Ar was limited to the 2,4,5-substituted Ph or naphthyl group. The compds. showed stronger activity when X was F, Cl, Br, and I in that order and also showed antimicrobial activity of a wide spectrum. Compds. having electroneg. substituents in the 2-, 4-, and 5-positions showed a good activity, and (2,4,5-trichlorophenyl)moniodoacetamide and (2,4,5-trichlorophenyl)monobromoacetamide were especially good, showing a broad spectrum and excellent therapeutic effect against exptl. trichophytosis in animals. All the compds. except those with F showed a low acute toxicity. The characteristic pharmacol. action included hypothermia and a slight sedative action. F-substituted compds. of this series are aconitase inhibitors of the TCA cycle, have a strong toxicity in mammals, and show central stimulation and inhibition of respiratory and circulatory organs.
 IT 23543-22-8 23543-23-9 23543-42-2
 23543-43-3 23543-44-4 23554-64-5
 23605-47-2 23627-22-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericidal activity of)

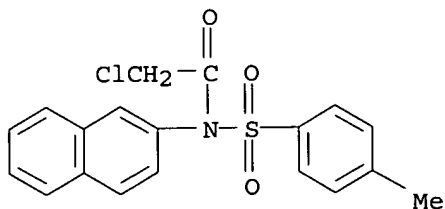
RN 23543-22-8 CAPLUS

CN Acetamide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-N-2-naphthyl- (8CI) (CA INDEX NAME)



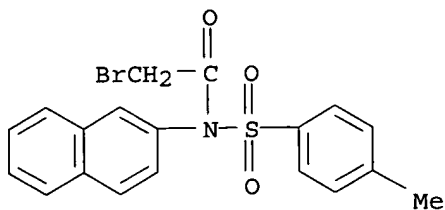
RN 23543-23-9 CAPLUS

CN Acetamide, 2-chloro-N-2-naphthyl-N-(p-tolylsulfonyl)- (8CI) (CA INDEX NAME)



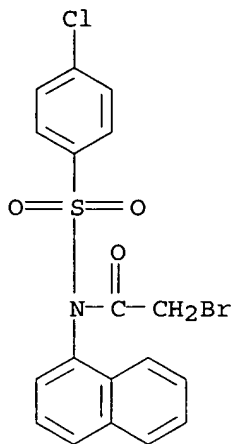
RN 23543-42-2 CAPLUS

CN Acetamide, 2-bromo-N-2-naphthyl-N-(p-tolylsulfonyl)- (8CI) (CA INDEX NAME)



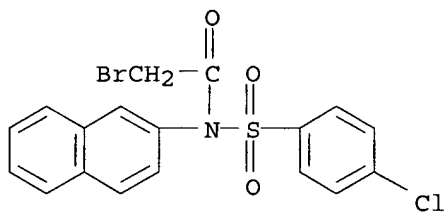
RN 23543-43-3 CAPLUS

CN Acetamide, 2-bromo-N-[(p-chlorophenyl)sulfonyl]-N-1-naphthyl- (8CI) (CA INDEX NAME)



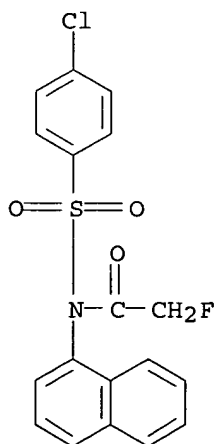
RN 23543-44-4 CAPLUS

CN Acetamide, 2-bromo-N-[(p-chlorophenyl)sulfonyl]-N-2-naphthyl- (8CI) (CA INDEX NAME)



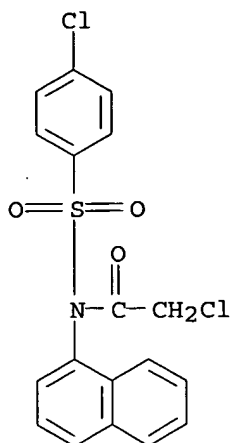
RN 23554-64-5 CAPLUS

CN Acetamide, N-[(p-chlorophenyl)sulfonyl]-2-fluoro-N-1-naphthyl- (8CI) (CA INDEX NAME)

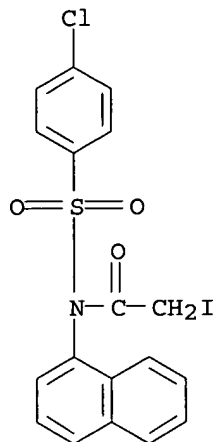


RN 23605-47-2 CAPLUS

CN Acetamide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-N-1-naphthyl- (8CI) (CA INDEX NAME)



RN 23627-22-7 CAPLUS
 CN Acetamide, N-[(p-chlorophenyl)sulfonyl]-2-iodo-N-1-naphthyl- (8CI) (CA
 INDEX NAME)



L69 ANSWER 118 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1969:57061 CAPLUS
 DOCUMENT NUMBER: 70:57061
 TITLE: Alkylation of dialkyldithiophosphoric acid salts
 AUTHOR(S): Itskova, A. L.; Soifer, R. S.; Mandel'baum, Ya. A.;
 Mel'nikov, N. N.
 CORPORATE SOURCE: Vses. Nauch.-Issled. Inst. Khim. Sredstv Zashch.
 Rast., Moscow, USSR
 SOURCE: Zhurnal Obshchei Khimii (1968), 38(11), 2556-61
 CODEN: ZOKHA4; ISSN: 0044-460X
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Refluxing 5.7 g. (EtO)2PS2K and 5 g. ClCH2CONEtSO2Me (I) in C6H6 5 hrs.
 gave 74.3% (EtO)2PS2CH2CONRSO2R1 (R = Et, R2 = Me), d20 1.2710, n20D
 1.5170. Similarly were prepared 60-75% yields of analogs (R and R1 shown,

resp.): Me, Me, 1.3261, 1.5315; H, Et, m. 55-7°; Bu, Et, 1.1926, 1.5050; H, C₆H₃Cl₂-3,4 m. 53-4°. Also prepared was (EtO)₂PS₂CH₂COR₂ (R₂ = tetrahydro-1-quinolyl, 1.2424, 1.5835. Refluxing 7.7 g. (MeO)₂PS₂Na with 5 g. I in Me₂CO 5 hrs. gave after separation on a chromatographic column (no details) 44.7% (MeO)₂PS₂CH₂CONEtSO₂Me, 1.3581, 1.5340, and 19.4% MeO(MeS)P(O)SCH₂CONEtSO₂Me, 1.3654, 1.5385, as well as some (MeO)₂(MeS)PS and (MeS)₂(MeO)PS. Similar reaction of (MeO)₂PS₂K and tetrahydroquinolide of chloroacetic acid gave 45.5% (MeO)₂PS₂CH₂CONC₉H₁₀, 1.2965, 1.5980, and 22.1% (MeO)(MeS)P(O)SCH₂CONC₉H₁₀, 1.2763, 1.5860. Reaction of 4 g. (MeO)(MeS)POSK with 4 g. I in Me₂CO gave in 5 hrs. some (MeS)₂(MeO)PS and 19.4% (MeO)(MeS)P(O)SCH₂CONEtSO₂Me, 1.3654, 1.5385. Refluxing 16 g. (MeO)(MeS)POSK and 14 g. (MeO)₂(MeS)PS in Me₂CO 12 hrs. gave 24.3% (MeS)₂(MeO)PS, b_{0.05} 60-2°, 1.2506, 1.5340. To 17.1 g. (MeO)₂PS₂K was slowly added 15 g. (MeO)₂(MeS)PS in Me₂CO and the mixture refluxed 4 hrs. to give 94.6% MeO(MeS)POSK, m. 110-12° (Et₂O). Similarly in 20 hrs. MeO(MeS)POSK and (MeS)₂(MeO)PS gave 21.8% (MeS)₂PO₂K, did not m. 250°. Ir spectra were reported. The results are explained by multistep alkylation of the phosphorodithioates.

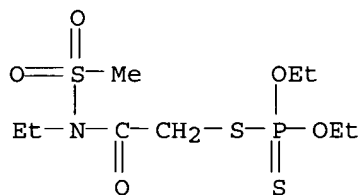
IT 22608-14-6P 22608-15-7P 22608-51-1P

22608-52-2P 22726-07-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

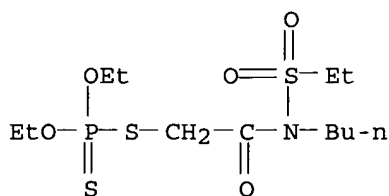
RN 22608-14-6 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



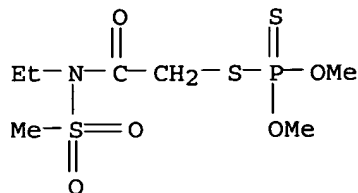
RN 22608-15-7 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl ester, S-ester with
N-butyl-N-(ethylsulfonyl)-2-mercaptoacetamide (8CI) (CA INDEX NAME)

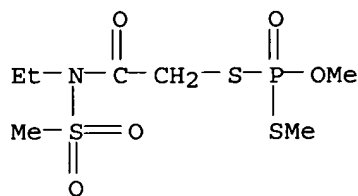


RN 22608-51-1 CAPLUS

CN Phosphorodithioic acid, O,O-dimethyl ester, S-ester with
N-ethyl-2-mercapto-N-(methylsulfonyl)acetamide (8CI) (CA INDEX NAME)

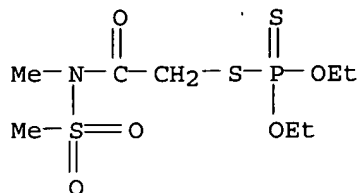


RN 22608-52-2 CAPLUS

CN Phosphorodithioic acid, O,S-dimethyl ester, S-ester with
N-ethyl-2-mercapto-N-(methylsulfonyl)acetamide (8CI) (CA INDEX NAME)

RN 22726-07-4 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



L69 ANSWER 119 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1966:473470 CAPLUS

DOCUMENT NUMBER: 65:73470

ORIGINAL REFERENCE NO.: 65:13700e-f

TITLE: Ketenes. X. Heterocyclic systems derived from
dimethyl-malonyl chloride

AUTHOR(S): Martin, James C.; Brannock, Kent C.; Meen, Ronald H.

CORPORATE SOURCE: Res. Labs., Eastman Kodak Co., Kingsport, TN

SOURCE: Journal of Organic Chemistry (1966), 31(9), 2966-72

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

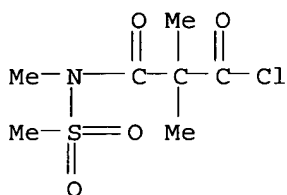
LANGUAGE: English

OTHER SOURCE(S): CASREACT 65:73470

AB cf, CA 65, 3759f. Dimethylmalonyl chloride reacted with a number of N-monosubstituted amides to afford dihydro-2-methylene-4H-1,3-oxazine-4,6(5H)-diones and with N-monosubstituted thioamides and N,N'-odisubstituted amidines to give the corresponding thiazine and pyrimidine analogs. Several reactions producing these heterocycles were described. The dihydro-2-methylene-4H-1,3-oxazine-4,6(5H)-diones rearranged to 3-oxoglutarimides if the methylene group was substituted with one or two groups other than hydrogen. The reaction of

dimethylmalonyl chloride with aromatic amides unsubstituted on the nitrogen gave 4H-1,3-oxazine-4,6(5H)-diones. A similar reaction with aliphatic amides unsubstituted on the nitrogen gave dihydro-2-methylene-4H-1,3-oxazine-4,6(5H)-diones; however, if triethylamine was used as an acid acceptor, dihydro-3-isobutyryl-2-methylene-4H-1,3-oxazine-1,3-oxazine-4,6(5H)-diones resulted. Imines having at least one α -methylene group and dimethylmalonyl chloride gave substituted 2,4(1H,3H)-pyridinediones.

IT 10104-16-2, Malonamoyl chloride, N,2,2-trimethyl-N-(methylsulfonyl)-
(preparation of)
RN 10104-16-2 CAPLUS
CN Malonamoyl chloride, N,2,2-trimethyl-N-(methylsulfonyl)- (7CI, 8CI) (CA INDEX NAME)



L69 ANSWER 120 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1964:3301 CAPLUS
DOCUMENT NUMBER: 60:3301
ORIGINAL REFERENCE NO.: 60:557b-c
TITLE: Esters of mono- or dithiophosphoric, phosphonic, and phosphinic acids
INVENTOR(S): Schrader, Gerhard
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: 3 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1152407	----	19630808	DE	19610614

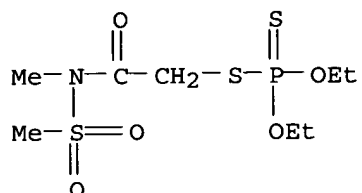
AB To a stirred solution of 79 g. O,O-dimethyldithiophosphoric acid and 65 g. K₂CO₃ in 300 ml. MeCN at 40° is added 93 g. ClCH₂CONMeSO₂Me in 100 ml. MeCN, the mixture stirred 2 hrs. at 60°, poured into 400 ml. ice water, and the separated oil extracted with 300 ml. C₆H₆ and dried in vacuo at 60° to leave 63% RR1P(X)SCH₂CONMeSO₂Me (I) (R = R₁ = MeO, X = S). Similarly were prepared the following I (R, R₁, X, and % yield given): MeO, MeO, O, 93; EtO, EtO, S, 81; EtO, EtO, O, 70; Me, EtO, S, 59; Et, EtO, S, 63; Me, Me, S, 58 (m. 105°).

IT 22726-07-4, Phosphorodithioic acid, O,O-diethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide 38995-02-7, Phosphorothioic acid, O,O-diethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide 89909-90-0, Phosphorodithioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide 89909-92-2, Phosphorothioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide 90221-41-3, Phosphonodithioic acid,

methyl-, O-ethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide **90482-75-0**, Phosphonodithioic acid, ethyl-, O-ethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide
(preparation of)

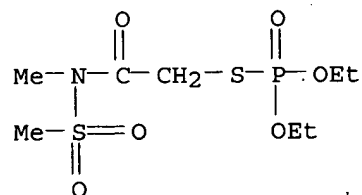
RN 22726-07-4 CAPLUS

CN Phosphorodithioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



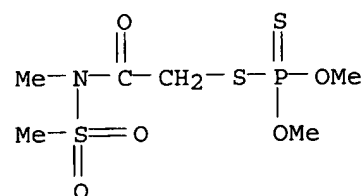
RN 38995-02-7 CAPLUS

CN Phosphorothioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



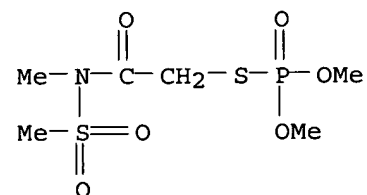
RN 89909-90-0 CAPLUS

CN Phosphorodithioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)

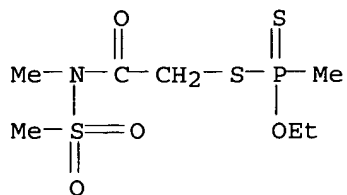


RN 89909-92-2 CAPLUS

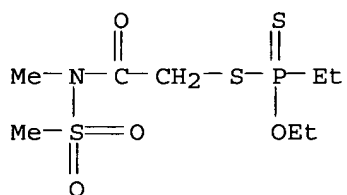
CN Phosphorothioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)



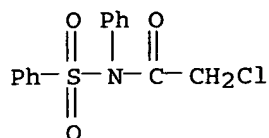
RN 90221-41-3 CAPLUS
 CN Phosphonodithioic acid, methyl-, O-ethyl ester, S-ester with
 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)



RN 90482-75-0 CAPLUS
 CN Phosphonodithioic acid, ethyl-, O-ethyl ester, S-ester with
 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)



L69 ANSWER 121 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1963:448038 CAPLUS
 DOCUMENT NUMBER: 59:48038
 ORIGINAL REFERENCE NO.: 59:8637b-c
 TITLE: Sulfanilidides. N-Chloroacetyl derivatives of
 benzenesulfanilidides, benzenesulfophenetidides, and
 benzenesulfotoluidides
 AUTHOR(S): Malinovskii, M. S.; Solomko, Z. F.; Glushko, L. P.
 SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition)
 (1963), 29(6), 614-15
 CODEN: UKZHAU; ISSN: 0041-6045
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB XC6H4SO2NNaC6H4Y and ClCH2COC1 form the following I, potential fungicides
 (X, Y, and m.p. given): H, p-Me, 132.5-3°; H, o-MeO,
 134-4.5°; H, o-Me, 128.5-9°; p-Me, p-MeO, 130-1°;
 p-Me, p-EtO, 114.5-15°; p-Cl, p-Me, 134.5-5°; p-Cl, p-EtO,
 127.5-8.5°; p-Cl, o-MeO, 126-7°; p-Br, p-EtO, 134-5°;
 H, p-Br, 163.5-4.5°.
 IT 72310-04-4, Acetanilide, 2-chloro-N-(phenylsulfonyl)-
 (derivs.)
 RN 72310-04-4 CAPLUS
 CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



L69 ANSWER 122 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1963:448037 CAPLUS

DOCUMENT NUMBER: 59:48037

ORIGINAL REFERENCE NO.: 59:8636f-h,8637a-b

TITLE: 2-Bromo-4-methylphenyl alkyl and aryl sulfides and sulfones

AUTHOR(S): Dandegaonker, S. H.; Rangaswamy, J. R.

CORPORATE SOURCE: Karnatak Univ., Dharwar, India

SOURCE: Journal of the Karnatak University (1962), 6, 19-24

CODEN: JKAUAR; ISSN: 0453-3348

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB 2,4-BrMeC6H3SH (I) was prepared and its alkyl and aryl sulfide derivs. by treating the alkyl or aryl halide with the Na salt of I. The sulfides were then oxidized to the corresponding sulfones with H2O2 in HOAc. 2,4-BrMeC6H3NH2 (18 g.) was suspended in 30 mL. water, 30 mL. concentrated HCl, and 7 g. NaNO2 in 25 mL. water, and the clear diazonium solution added in small portions with vigorous stirring to 30 g. K Et xanthate in 70 mL. water heated at 70-80°. Stirring was continued for an addnl. 2 h., a heavy red oil settled to the bottom, and the clear aqueous upper layer extracted

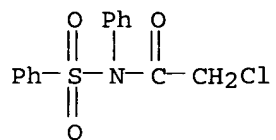
with ether. The exts. were dried over anhydrous Na2SO4, the solvent removed, the residue added to the oil, and then 100 mL. alc., 12 g. KOH, and 2 g. glucose added and the mixture refluxed on a water bath for 7 h. The alc. was distilled, the residue cooled, treated with 5 mL. H2SO4 (23%) and 20 g. Zn dust, the mixture heated on a water bath for 0.5 h., and then refluxed with 100 mL. C6H6 for 1 h. The C6H6 layer was separated, dried over anhydrous Na2SO4, the solvent removed, and the residue distilled to give 18 g. (90%) I, b6 107-8°, n25D 1.6148. I (3.0 g.) was added with vigorous shaking to NaOEt (prepared from 0.8 g. Na and 10 mL. absolute EtOH). The alkyl or aryl halide (1 mol) was added with stirring to the Na thiophenolate, the mixture refluxed for 3 h., the mixture made alkaline with 10% aqueous KOH, and then diluted

with H2O. Liquid sulfides were isolated by ether extraction, and solid sulfides

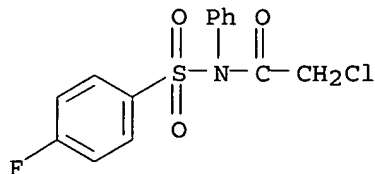
isolated by filtration. The sulfide (1.0 g.) was dissolved in glacial HOAc, 20 mL. H2O2 (30%) added, the mixture heated on a water bath for 3 h., cooled and diluted with water. The solid sulfones were filtered off and recrystd. and the liquid sulfones extracted with ether. Sulfides (II) and corresponding sulfones were prepared (R, % yield, m.p. or b.p., n25D % yield sulfone derivative, m.p. or b.p., and n27D given): Me, 67, 124-5°/8, 1.6120, 72, 96°, -; Et, 89, 132-3°/2, 1.5985, 45, 185-6°/7, 1.5845; Pr, 68, 139-40°/2, 1.5881, 54, 200°/7, 1.5770; Bu, 83, 154-5°/3, 1.5722, 55, 210-11°/7, 1.5620; amyl, 75, 163-4°/3, 1.5469, 36, 220-1°/7, 1.5230; HOCH2CH2, 57, 185-6°/3, 1.6044, 36, 215-16°/7, 1.5715; p-O2NC6H4, 64, 175°, -, 72, 146°, -; PhCH2, 67, 195-7°/6 mm., 1.6265, 82, 286°, -.

IT 72310-04-4, Acetanilide, 2-chloro-N-(phenylsulfonyl)-(derivs.)

RN 72310-04-4 CAPLUS
 CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

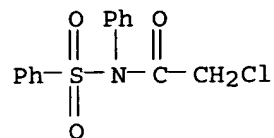


L69 ANSWER 123 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1963:66215 CAPLUS
 DOCUMENT NUMBER: 58:66215
 ORIGINAL REFERENCE NO.: 58:11253g-h
 TITLE: Sulfanilides. V. N-Chloroacetyl derivatives of sulfanilides
 AUTHOR(S): Malinovskii, M. S.; Solomko, Z. F.; Glushko, L. P.
 CORPORATE SOURCE: State Univ., Dnepropetrovsk
 SOURCE: Zhurnal Obshchei Khimii (1962), 32, 3195-7
 CODEN: ZOKHA4; ISSN: 0044-460X
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 58:66215
 AB cf. CA 58, 5567c. ClCH₂COCl added over 1 hr. to RSO₂NHR' (in the form of Na salt) in C₆H₆ gave after 1-1.5 hrs. at 40-50° the following RSO₂NR'COCH₂Cl (R and R' shown, resp.): Me, Ph, m. 111-12.5°; iso-Pr, Ph, m. 153-4°; Ph, Ph, m. 113-13.5°; p-MeC₆H₄, Ph, m. 138-8.5°; o-MeC₆H₄, Ph, m. 120-20.5°; p-FC₆H₄, Ph, m. 138.5-9.5°; p-ClC₆H₄, Ph, m. 137-8°; p-BrC₆H₄, Ph, m. 128-8.5°; p-IC₆H₄, Ph, m. 151-2°; p-O₂NC₆H₄, Ph, m. 180-1.5°; m-O₂NC₆H₄, Ph, m. 164-5°; Ph, p-MeOC₆H₄, m. 172-3°. Heating with 5% NaOH at 50° converted these, within 20 min., to the original sulfonamides.
 IT 2805-90-5, Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]-
 72310-04-4, Acetanilide, 2-chloro-N-(phenylsulfonyl)-
 72310-14-6, Acetanilide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-
 72310-18-0, Acetanilide, 2-chloro-N-(p-tolylsulfonyl)-
 72310-22-6, Acetanilide, 2-chloro-N-(methylsulfonyl)-
 91131-55-4, Acetanilide, 2-chloro-N-(isopropylsulfonyl)-
 92152-34-6, Acetanilide, N-[(p-bromophenyl)sulfonyl]-2-chloro-
 93309-14-9, Acetanilide, 2-chloro-N-[(p-iodophenyl)sulfonyl]-
 93944-78-6, Acetanilide, 2-chloro-N-(o-tolylsulfonyl)-
 (preparation of)
 RN 2805-90-5 CAPLUS
 CN Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)



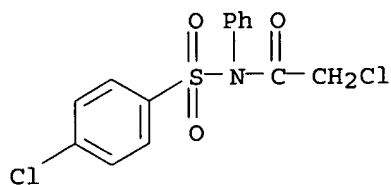
RN 72310-04-4 CAPLUS

CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



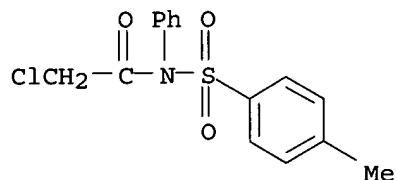
RN 72310-14-6 CAPLUS

CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



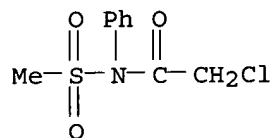
RN 72310-18-0 CAPLUS

CN Acetamide, 2-chloro-N-[(4-methylphenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



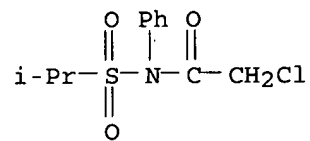
RN 72310-22-6 CAPLUS

CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-phenyl- (9CI) (CA INDEX NAME)



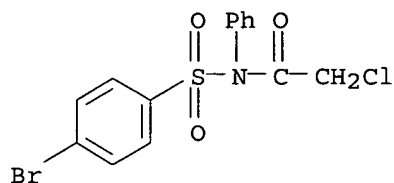
RN 91131-55-4 CAPLUS

CN Acetanilide, 2-chloro-N-(isopropylsulfonyl)- (7CI) (CA INDEX NAME)



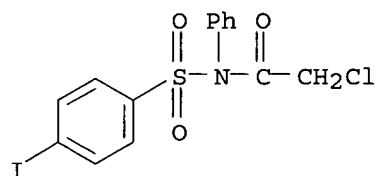
RN 92152-34-6 CAPLUS

CN Acetanilide, N-[(p-bromophenyl)sulfonyl]-2-chloro- (7CI) (CA INDEX NAME)



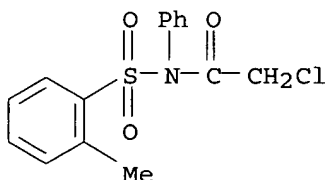
RN 93309-14-9 CAPLUS

CN Acetanilide, 2-chloro-N-[(p-iodophenyl)sulfonyl]- (7CI) (CA INDEX NAME)



RN 93944-78-6 CAPLUS

CN Acetanilide, 2-chloro-N-(o-tolylsulfonyl)- (7CI) (CA INDEX NAME)



L69 ANSWER 124 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1963:66214 CAPLUS

DOCUMENT NUMBER: 58:66214

ORIGINAL REFERENCE NO.: 58:11253e-g

TITLE: Convenient synthetic technique to oxidize mercaptans to disulfides

AUTHOR(S): Wallece, T. J.; Bartok, W.; Schriesheim, A.

CORPORATE SOURCE: Esso Res. & Eng. Co., Linden, NJ

SOURCE: Journal of Chemical Education (1963), 40(No. 1), 39

CODEN: JCEDA8; ISSN: 0021-9584

DOCUMENT TYPE: Journal

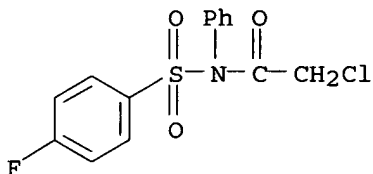
LANGUAGE: Unavailable

AB Disulfides are prepared in good yields by the oxidation of mercaptans with O in the presence of a base. The mercaptan (0.1 mole) is placed in a reaction flask containing a basic solution and a Teflon-covered stirrer, flushed with dry

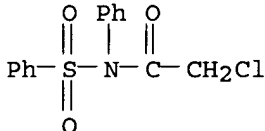
N, attached to an apparatus capable of delivering dry O, the N displaced with O, and the mixture stirred 1.5-23 hrs. The basic reaction medium may be 2M aqueous NaOH or 2M MeOH-MeONa. The O consumption detcs. the extent of reaction. Co phthalocyanine has been used as a catalyst in the reaction

of BuSH and O in aqueous NaOH. The following compds. have been oxidized (compound, solvent, % yield of disulfide, reaction time in hrs. given): BuSH, H₂O, 79, 11.5; BuSH, H₂O (and Co phthalocyanine), 61, 1.5; EtMeCHSH, H₂O, 83, 20.0; PhSH, H₂O, 67, 23.0; BuSH, MeOH, 85, 7.0; EtMeCHSH, MeOH, 77, 11.0; PhCH₂SH, MeOH, 84, 2.5.

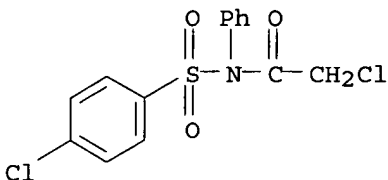
IT 2805-90-5, Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]-
 72310-04-4, Acetanilide, 2-chloro-N-(phenylsulfonyl)-
 72310-14-6, Acetanilide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-
 72310-18-0, Acetanilide, 2-chloro-N-(p-tolylsulfonyl)-
 72310-22-6, Acetanilide, 2-chloro-N-(methylsulfonyl)-
 91131-55-4, Acetanilide, 2-chloro-N-(isopropylsulfonyl)-
 93944-78-6, Acetanilide, 2-chloro-N-(o-tolylsulfonyl)-
 (preparation of)
 RN 2805-90-5 CAPLUS
 CN Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)



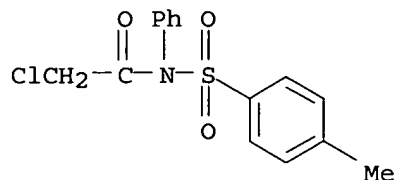
RN 72310-04-4 CAPLUS
 CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 72310-14-6 CAPLUS
 CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)

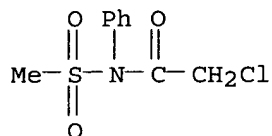


RN 72310-18-0 CAPLUS
 CN Acetamide, 2-chloro-N-[(4-methylphenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



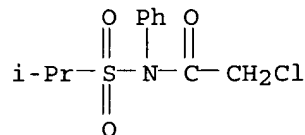
RN 72310-22-6 CAPLUS

CN Acetamide, 2-chloro-N-(methanysulfonyl)-N-phenyl- (9CI) (CA INDEX NAME)



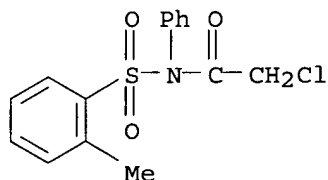
RN 91131-55-4 CAPLUS

CN Acetanilide, 2-chloro-N-(isopropylsulfonyl)- (7CI) (CA INDEX NAME)



RN 93944-78-6 CAPLUS

CN Acetanilide, 2-chloro-N-(o-tolylsulfonyl)- (7CI) (CA INDEX NAME)



L69 ANSWER 125 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1962:41812 CAPLUS

DOCUMENT NUMBER: 56:41812

ORIGINAL REFERENCE NO.: 56:7937i,7938a-b

TITLE: Correlation of chemical structure and taste in the saccharin series

AUTHOR(S): Hamor, Glenn H.

CORPORATE SOURCE: Univ. of S. California, Los Angeles

SOURCE: Science (Washington, DC, United States) (1961), 134, 1416-17

CODEN: SCIEAS; ISSN: 0036-8075

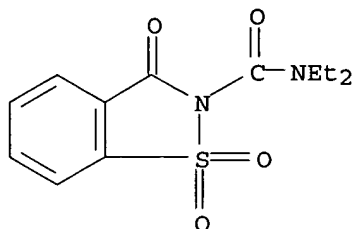
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB With approx. 80 saccharin derivs. substitution in the number 2 or 3 position

gave tasteless compds. Replacement of the imide H by another chemical group gave, in almost every case, a tasteless compound Both sweet and bitter substances were made tasteless by substitution in the 2 position. Isomerization of the lactam to the lactim form may be necessary for sweet (and bitter) taste. Substitution in the benzene ring of saccharin with the electron-withdrawing nitro group gives a bitter substance. Substitution with an electron-donating group results in a sweet taste. Doubling the saccharin mol. results in a lack of taste. Many saccharin derivs., including saccharin itself, have a bitter taste or a bitter aftertaste. Resonance may play a part in taste.

IT 5443-42-5, 1,2-Benzisothiazoline-2-carboxamide,
N,N-diethyl-3-oxo-, 1,1-dioxide
(taste of)
RN 5443-42-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide
(9CI) (CA INDEX NAME)

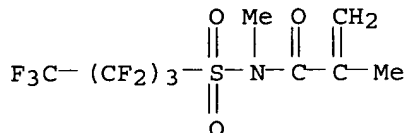


L69 ANSWER 126 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1962:18996 CAPLUS
DOCUMENT NUMBER: 56:18996
ORIGINAL REFERENCE NO.: 56:3643h-i
TITLE: Fluorine-containing acrylamides and their polymers
INVENTOR(S): Brown, Harvey A.
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

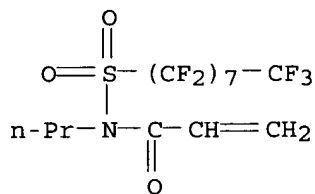
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2995542		19570520	US	
GB 888311			GB	

AB The reaction of 62.6 g. C₄F₉SO₂NHMe (from C₄F₉SO₂F and MeNH₂) and 20.2 g. CH₂:CHCOCl (I) in 150 ml. Et₂O and 20.2 g. Et₃N gave 55.4 g. C₄F₉SO₂N(Me)COCH:CH₂, b_{0.3} 45-59°, n_{25D} 1.3770. imilarly prepared were C₄F₉SO₂N(Me)COC(Me)H: CH₂, b_{0.5} 52-62°, C₈F₁₇SO₃NHCOCH: CH₂, m. 100-18°, and C₈F₁₇SO₂N(Pr)COCH:CH₂. Addition of 46 g. Na to 100 g. C₈F₁₇NHMe in 250 ml. MeOH, evaporation of the solvent, and addition of 30 ml. I in 150 ml C₆H₆ gave 70 g. C₈F₁₇SO₂N(Me)COCH:CH₂ (II), m. 52-4°. Similarly prepared was C₈F₁₇SO₂N(Et)COCH:CH₂ (III), b_{0.5} 80-6°, m. 38--40°. Heating 8 g. II with 0.04 g. Ac₂O₂ at 60° for 15 min. gave 41% polymer (IV) precipitated from xylene hexafluoride in MeOH. IV was brittle up to 65°, softened at 65-80°, was rubbery above 80°, and decomposed at 160°. It imparts excellent stain resistance to fabrics, as do emulsion polymers of III.

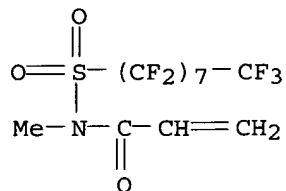
IT 678-52-4, Acrylamide, N,2-dimethyl-N-[(nonafluorobutyl)sulfonyl]-
 684-38-8, Acrylamide, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-
 865-93-0, Acrylamide, N-[(heptadecafluorooctyl)sulfonyl]-N-methyl-
 1869-69-8, Acrylamide, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-
 3827-95-0, Acrylamide, N-methyl-N-[(nonafluorobutyl)sulfonyl]-
 (polymerization of)
 RN 678-52-4 CAPLUS
 CN 2-Propenamide, N,2-dimethyl-N-[(nonafluorobutyl)sulfonyl]- (9CI) (CA
 INDEX NAME)



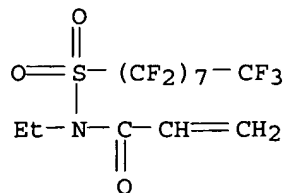
RN 684-38-8 CAPLUS
 CN 2-Propenamide, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl- (9CI) (CA
 INDEX NAME)



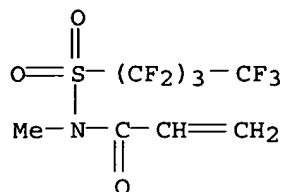
RN 865-93-0 CAPLUS
 CN Acrylamide, N-[(heptadecafluorooctyl)sulfonyl]-N-methyl- (7CI, 8CI) (CA
 INDEX NAME)



RN 1869-69-8 CAPLUS
 CN Acrylamide, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]- (7CI, 8CI) (CA
 INDEX NAME)



RN 3827-95-0 CAPLUS
 CN Acrylamide, N-methyl-N-[(nonafluorobutyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)



L69 ANSWER 127 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1961:143656 CAPLUS

DOCUMENT NUMBER: 55:143656

ORIGINAL REFERENCE NO.: 55:27107a-i,27108a-f

TITLE: Amino acids and peptides. XXXI. Products formed from tosylglycine under the conditions of a mixed carbonic anhydride synthesis

AUTHOR(S): Zaoral, M.; Rudinger, J.

CORPORATE SOURCE: Ceskoslov. akad. ved, Prague

SOURCE: Collection of Czechoslovak Chemical Communications (1961), 26, 2316-32

CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 55:143656

AB cf. *ibid.* 25, 3338(1960); CA 54, 24420h. [Tosyl or Ts means p-MeC₆H₄SO₂ throughout this abstract] TsNHCH₂CONTsCH₂CO₂H (I), m. 174-5° (aqueous EtOH) [pyridine salt (II), C₁₈H₂₀N₂O₇S₂.0.25C₅H₅N, m. 136-8° (EtOH); N-ethylpiperidine (III) salt m. about 150° (decomposition) (darkening from 140°); Me ester m. 131-2° (MeOAc-petr. ether); anilide (IV) m. 214-15° (AcOH)], was isolated as the product of several reactions expected to lead to (TsNHCH₂CO)₂O (V). The compound of Swan (CA 47, 9274d), was probably also I and not V. I and V could be related by a mobile equilibrium. 3-Tosyloxazolidine-2,5-dione (VI), m. 190° (dioxane) (decomposition) (sintering and darkening from 170°), could serve as an intermediate in the peptide synthesis. Treating at -3° 2.43 g. TsNMeCH₂CO₂H (VII) and 1.4 ml. III in 20 ml. CHCl₃ with 1.4 ml. sec-BuOCOCl in 3 ml. CHCl₃, keeping the mixture 5 min. at 0°, adding 0.9 ml. PhNH₂, keeping the mixture 30 min. at room temperature, evaporating in vacuo, treating the residue with 25 ml. H₂O and 50

ml. EtOAc, and working up gave 2.55 g. VII anilide, m. 156-7° (aqueous EtOH). Similarly, 2.29 g. TsNHCO₂H (VIII) gave 0.05 g. VIII anilide (IX), m. 164-5° (aqueous EtOH), 1.74 g. sec-BuOCONHPh (X), m. 64-5° (petr. ether), and 1.74 g. recovered VIII. Treating at -2° 2.29 g. VIII and 1.4 ml. III in 10 ml. CHCl₃ with 1.4 ml. sec-BuOCOCl, keeping the mixture 5 min. at 0°, diluting with 150 ml. chilled (-5°) petr. ether with agitation, and after 5 min. at 0° treating sop. both layers (dissolved in CHCl₃) with PhNH₂ gave 1.8 g. X and 1.38 g. recovered VIII, resp. If C₅H₅N was used instead of III in the above experiment, the petr. ether layer gave 5% X, whereas the oily layer (dissolved in CHCl₃) yielded 26% I, 8% IV, 20% IX, 15.5% X, and 4% 1,4-ditosylpiperazine-2,5-dione (XI), m. 295-60° (aqueous C₅H₅N) (Kofler block). Treating the mixed anhydride (from 11.45 g. VIII, 6.9 ml. sec-BuOCOCl, 4.9 ml. C₅H₅N,

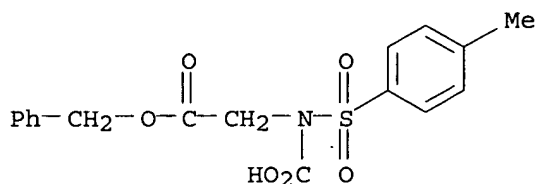
and 50 ml. CHCl_3 at -3° as usual) with 4.6 ml. PhNH_2 and working up gave 4% recovered VIII, 1% VIII PhNH_2 salt, 16% IX, 15% I, 22% IV, 0.1% sec-BuOCONTs $\text{CH}_2\text{CO}_2\text{H}$ (XII), m. $104-5^\circ$ (CCl_4 -petr. ether), 0.1% XII anilide, m. $137-9^\circ$ (EtOAc-petr. ether), 19% XI, 10% (based on PhNH_2 added) X, and 25% PhNH_3Cl . Treating at -5 to 0° 2.29 g. VIII, 15 ml. CHCl_3 , and 0.95 ml. $\text{C}_5\text{H}_5\text{N}$ with $\text{TsNHCHH}_2\text{COCl}$ (XIII), keeping the mixture at room temperature overnight, evaporating in vacuo, and triturating the gummy residue with 20 ml. 2% aqueous NaHCO_3 gave II, obtained also by treating 0.44 g. I in 3 ml. iso- PrOH with 0.09 ml. $\text{C}_5\text{H}_5\text{N}$. Treating 4 g. crude II in H_2O and EtOAc with 1 ml. concentrated aqueous HCl , filtering, washing the EtOAc layer with dilute aqueous HCl , extracting with 5% aqueous NaHCO_3 in 3 portions, and acidifying the filtered extract gave 2.83 g. I, m. $174-5^\circ$ (aqueous EtOH). Stirring vigorously 2 g. XIII, 2.7 g. $\text{TsNHCH}_2\text{CO}_2\text{Ag}$, and 25 ml. CHCl_3 3 hrs. at room temperature, filtering, evaporating the filtrate in vacuo, dissolving the residue in 1 ml. Me_2CO , and precipitating with 20 ml. C_6H_6 gave after 12 hrs. at 0° 0.4 g. I, m. $163-4^\circ$ (aqueous EtOH), unchanged on further crystallization. The infrared spectra of I, m. $163-4^\circ$, and I, m. $174-5^\circ$, were identical. Treating portionwise at -5 to 0° 27.5 g. $\text{TsNHCH}_2\text{CO}_2\text{CH}_2\text{Ph}$ (XIV), 23.8 ml. III, and 50 ml. CHCl_3 with 23.8 ml. sec-BuOCOCl in 23.8 ml. CHCl_3 , keeping the mixture several hours at room temperature, evaporating, dissolving the residue in H_2O and EtOAc, washing the EtOAc layer with 10% aqueous HCl and 5% aqueous NaHCO_3 , drying (Na_2SO_4), and evaporating gave 23.7 g. XII PhCH_2 ester (XV), m. $55-6^\circ$ (sintering from 50°). Hydrogenating 4.19 g. XV in 10 ml. AcOH over 0.4 g. prerduced PtO_2 at room temperature atmospheric, evaporating the filtrate, dissolving the residue in 100 ml. 5% aqueous NaHCO_3 , washing the solution with Et_2O , acidifying, extracting with Et_2O , and evaporating the dried extract gave 2.4 g. XII. Treating at 0° 2.29 g. VIII, 1.84 ml. III, and 20 ml. CHCl_3 with 0.72 ml. AcCl and after 10 min. 0.94 ml. PhNH_2 , keeping the mixture at room temperature 30 min., evaporating in vacuo, treating the residue with H_2O and EtOAc, extracting the EtOAc layer with 5% aqueous NaHCO_3 , and acidifying the extract gave 0.9 g. VIII N-Ac derivative (XVI), m. $152-3^\circ$ [XVI Me ester (prepared with CH_2N_2) m. $86-7^\circ$ (aqueous MeOH or C_6H_6 -petr. ether)]. Treating at -5 to 0° 27.5 g. XIV, 23.8 ml. III, and 100 ml. CHCl_3 with 13.5 g. AcCl in 30 ml. CHCl_3 , keeping the mixture 1 hr. at room temperature, evaporating in vacuo, and working up the residue as in the case of XV gave 18.8 g. XVI PhCH_2 ester (XVII), m. $67-7.5^\circ$ (aqueous EtOH). Hydrogenating 3.6 g. XVII in 10 ml. AcOH over 0.5 g. PtO_2 at room temperature (1 atmospheric), evaporating the filtered solution in vacuo, and triturating the residue with petr. ether gave 2.6 g. XVI. The attempted solvolysis of 7.2 g. XVII with 50 ml. 35% HBr in AcOH at room temperature (20 min.) gave 3.45 g. VIII. Treating at -5 to 0° 3.3 g. I, 0.61 ml. $\text{C}_5\text{H}_5\text{N}$. and 30 ml. CHCl_3 with 1.04 ml. sec-BuOCOCl, after 5 min. diluting the chilled (-10°) mixture with chilled (0°) petr. ether till no more precipitation took place, after 5 min. decanting the upper layer, treating the residue with 30 ml. cooled (0°) CHCl_3 and 1 ml. PhNH_2 (evoln. of CO_2), after 30 min. collecting the precipitate, washing with CHCl_3 , drying, and crystallizing gave 3 g. IV. If the above reaction was carried out in the conventional manner, 65% XI was obtained along with 0.18 g. X, 0.08 g. IX,

and 0.3 g. recovered I. Treating I, IV, XI, XII, and XVI, resp., with PhNH₂, keeping the mixture 30 min. at 100°, cooling, diluting with excess 10% aqueous HCl, collecting the precipitate, and washing with 5% aqueous NaHCO₃ gave IX. Keeping 0.44 g. I with 5 ml. 25% aqueous NH₃ at room temperature overnight, acidifying, collecting the precipitate, triturating repeatedly with 5% aqueous NaHCO₃, and washing with H₂O gave 0.23 g. TsNHCH₂CONH₂, m. 163-4°. Refluxing 0.11 g. I, 1 ml. CHCl₃, and 0.02 ml. C₅H₅N 30 min., evaporating, and washing the residue with 1 ml. 10% aqueous HCl and 1 ml. boiling EtOH gave 0.02 g. XI, prepared also (yield 47%) by heating 0.11 g. I with 1 ml. C₅H₅N 30 min. at 100° and working up as above. Introducing with agitation at 50-60° COCl₂ into 5.5 g. finely ground VIII di-Na salt (from VIII in MeOH and 2N MeONa in MeOH) in 60 ml. dioxane 30 min., filtering the hot mixture, evaporating the filtrate, and triturating the residue with 20 ml. C₆H₆ gave 56% VI, whereas refluxing 1.65 g. XII with 5 ml. SOCl₂ 20 min., evaporating in vacuo, heating the residual oil at 130-50°/15 mm. till frothing ceased and crystals separated, triturating the cooled residue with 10 ml. C₆H₆, and collecting gave only 32% VI. Adding 0.18 ml. PhNH₂ in 0.5 ml. dioxane to 0.51 g. VI in 2 ml. dioxane, keeping the mixture 5 min. at room temperature (evoln. of CO₂) and 5 min. at 50°, diluting with 8 ml. H₂O. and acidifying gave 100% IX. Treating 0.51 g. VI in 3 ml. dioxane with 0.21 g. H₂NCH₂CO₂Et in 1 ml. dioxane, keeping the mixture 5 min. at room temperature (evolution of CO₂), evaporating in vacuo, and washing the residue with aqueous NaHCO₃ gave 0.52 g. TsNHCH₂CONHCH₂CO₂Et, m. 89-90° (C₆H₆-petr. ether). Similarly, L-leucine Me ester gave 87% tosylglycyl-L-leucine Me ester, m. 79-80° (EtOAc-petr. ether). Carbonyl stretching frequencies of some derivs. of I and VIII were given and discussed.

IT **856944-58-6**, Glycine, N-carboxy-N-p-tolylsulfonyl-, benzyl ester (preparation of)

RN 856944-58-6 CAPLUS

CN Glycine, N-carboxy-N-p-tolylsulfonyl-, benzyl ester (6CI) (CA INDEX NAME)



L69 ANSWER 128 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1961:137433 CAPLUS

DOCUMENT NUMBER: 55:137433

ORIGINAL REFERENCE NO.: 55:25918g-h

TITLE: Saccharin derivatives. IV. Synthesis of 2-(diethylcarbamoyl)- and 2-(diethylthiocarbamoyl)saccharin, and related compounds

AUTHOR(S): Mehta, Satyendra J.; Hamor, Glenn H.

CORPORATE SOURCE: Univ. of S. California, Los Angeles

SOURCE: Journal of Pharmaceutical Sciences (1961), 50, 672-5

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

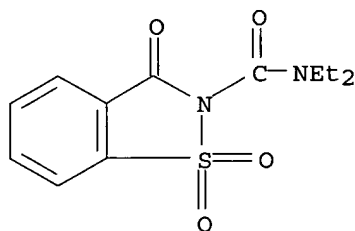
OTHER SOURCE(S): CASREACT 55:137433

AB cf. CA 54, 15362a. The following compds. were prepared by refluxing the appropriate compound with CHCl_3 and Et_2NCOC_1 and recrystg. the product from EtOH (m.p. and % yield given): saccharin derivs.: 2-(diethylcarbamoyl), $117-18^\circ$, 40; 2-(diethylthiocarbamoyl), $206-7^\circ$, 34; 2-(diethylcarbamoyl)-6-nitro, $172-3^\circ$, 73; and 2-(carbethoxy), 136° , 65; 1,2-benzisothiazole 1,1-dioxide derivs.: 3-diethylamino, $206-7^\circ$, 46.9; 3-diethylamino-6-nitro, $256-7^\circ$ (Me_2CO), 67; and 3-(dimethylamino), $273-4^\circ$, 9.

IT **5443-42-5**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide **108676-51-3**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide (preparation of)

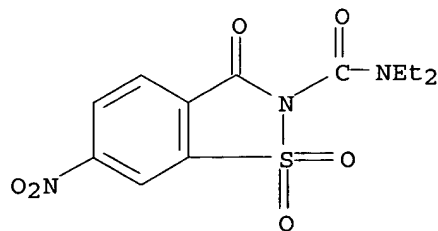
RN 5443-42-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 108676-51-3 CAPLUS

CN 2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide (6CI) (CA INDEX NAME)



L69 ANSWER 129 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1961:27961 CAPLUS

DOCUMENT NUMBER: 55:27961

ORIGINAL REFERENCE NO.: 55:5532b-f

TITLE: Sulfamoyl derivatives of certain saccharins

INVENTOR(S): Novello, Frederick C.

PATENT ASSIGNEE(S): Merck & Co., Inc.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2957883
DE 1165033
FR 1326309
GB 887711

19601025

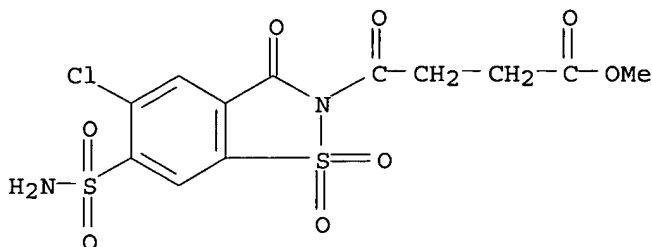
US
DE
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GB

AB A series of the title compds., useful as diuretics, was prepared via conventional reactions. Thus, 31.8 g. m-chlorotoluene was added dropwise to 165 ml. chlorosulfonic acid at 0°, the reaction mixture heated 3 hrs. at 150-60° and cooled, and the product precipitated over ice and added portion-wise to 150 ml. 28% NH₄OH at 0°. This mixture was heated 2 hrs. at 100° and cooled and the 5-chloro-2,4-disulfamoyl-toluene, m. 256-7° (from aqueous EtOH), collected. Oxidation of this product with alkaline KMnO₄ at 100° gave 5-chloro-2,4-disulfamoylbenzoic acid, decomposing 200° (from H₂O), which was cyclodehydrated in H₂SO₄ at 25° to give 5-chloro-6-sulfamoylsaccharin (I), decomposing 273-5° (from 50% aqueous EtOH); di-Na salt of I was prepared from NaOEt in EtOH. Similar 5-substituted-6-sulfamoylsaccharins prepared from suitable m-substituted toluenes were (5-substituent given): fluoro, bromo, methyl, butyl, ethoxy, butoxy, and nitro compds. Reduction of the 5-nitro compound gave 5-amino-6-sulfamoylsaccharin. The isomeric 6-chloro-5-sulfamoylsaccharin was prepared from p-chlorotoluene via 4-chlorotoluene-2,5-disulfonyl chloride, 4-chloro-2,5-disulfamoyltoluene, and 4-chloro-2,5-disulfamoylbenzoic acid. Condensation of I with various compds. in the presence of KOEt in HCONMe₂ gave derivs. of I. Substitution took place on the N atom (numbered 2) in the ring system (reactants and 2-substituents of 2-substituted-5-chloro-6-sulfamoylsaccharins given): (CH₂Br)₂, 2-bromoethyl (II); Br(CH₂)₃Br, 3-bromopropyl; n-C₃H₇Br, n-C₃H₇; CH₂:CHCH₂Br, allyl; PhCH₂Br, PhCH₂; PhCH₂CH₂Br, PhCH₂CH₂; n-C₄H₉Br, n-C₄H₉; phenylacetyl bromide, phenylacetyl; methyl succinoyl chloride, 3-carbomethoxypropionyl; and Et bromoacetate, 2-carbethoxymethyl (III). Alkaline hydrolysis of III gave 2-carboxymethyl-5-chloro-6-sulfamoylsaccharin. Reactions of II with alc. solns. of aqueous NaOH, NH₃, n-C₃H₇NH₂, and piperidine gave 2-(2-hydroxyethyl)-, 2-(2-aminoethyl), 2-(2-propylaminoethyl)-, and 2-(2-piperidinoethyl)-5-chloro-6-sulfamoylsaccharin, resp. Directions were given for the preparation of tablets.

IT 104095-24-1, 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide (preparation of)

RN 104095-24-1 CAPLUS

CN 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide (6CI) (CA INDEX NAME)



L69 ANSWER 130 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1960:97262 CAPLUS
DOCUMENT NUMBER: 54:97262
ORIGINAL REFERENCE NO.: 54:18378c-i,18379a-g

TITLE: N-(α -Aminoacyl)sulfonamides
 AUTHOR(S): Wieland, Theodor; Hennig, Hans Joachim
 CORPORATE SOURCE: Univ. Frankfurt, Germany
 SOURCE: Chemische Berichte (1960), 93, 1236-46
 CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 54:97262

AB α -Azidoalkanoyl chlorides (I) with p-MeC₆H₄SO₂NH₂ (II) or p-O₂NC₆H₄SO₂NH₂ (III) and N₃CH₂COCl (IV) with MeSO₂NH₂ (V) yielded the corresponding, strongly acidic N-azidoacylsulfonamides (VI). The VI reduced with HBr in glacial AcOH gave the corresponding N-(α -aminoacyl)sulfonamides (VII); p-NO₂-substituted VI hydrogenated over Pd black gave the corresponding p-aminobenzenesulfonimides of the amino acids. The VII were typical zwitterions and gave a number of reactions typical of amino acids. The appropriate α -halo acid (0.667 mole) dissolved with cooling in 200 cc. 3.3N NaOH, treated with 50 g. NaN₃, layered with 20 cc. Et₂O, refluxed 48-60 hrs., acidified with 350 cc. iced 2N H₂SO₄, and extracted with 3 l. Et₂O (in portions), the extract dried and evaporated, the residual liquid treated dropwise with 100 cc. SOCl₂ (in portions), and the mixture refluxed 1 hr., filtered, and fractionated yielded the corresponding I; in this manner were prepared IV, b12 41°, 77%; MeCHN₃COCl, b15, 44°, 85%; and Me₂CHCHN₃COCl, b13 61°, 70%. The appropriate sulfonamide (0.1 mole) and 0.12-0.15 mole I in 75 cc. xylene treated at 130-5° with a stream of N during 8 hrs., cooled, and filtered, and the residue recrystd. with C gave the corresponding VI; method A. The appropriate sulfonamide (0.2 mole) in 100 cc. 2N NaOH treated dropwise with stirring during 2 hrs. with 0.1 mole I, stirred 3 hrs., the mixture filtered, the residue treated with a small amount of aqueous NaHCO₃, the alkaline extract acidified and extracted with 100 cc. EtOAc, the extract reextd. with 7% aqueous NaHCO₃, and the aqueous alkaline extract acidified with HCl gave crystalline VI; method B. In this manner were prepared the following N₃CHRCONHSO₂R' (R, R', method, m.p., and % yield given): H, p-MeC₆H₄ (VIII), A, 105-6° (Et₂O-petr. ether), 82; Me, p-MeC₆H₄, A, 104° (Et₂O-petr. ether), 42; iso-Pr, p-MeC₆H₄, B, 91-2° (EtOAc-petr. ether), 46; H, p-O₂NC₆H₄, B, 144-5° (EtOAc-petr. ether), 74; Me, p-O₂NC₆H₄, B, 125° (EtOAc-petr. ether), 59; iso-Pr, p-O₂NC₆H₄, B, 109° (EtOAc-petr. ether), 29. For the N-Me derivative (IX) of VIII, A, 82° (aqueous EtOH) (from VIII and CH₂N₂). IV condensed in the usual manner with V, 9.2 g. crude product in 150 cc. buffer (50 cc. C₅H₅N and 5 cc. glacial AcOH in 10 l. H₂O) subjected to continuous electrophoresis during 5 days, the combined acidic fractions evaporated in vacuo, the residue dissolved in a few cc. EtOAc, and the solution filtered and diluted with petr. ether gave N₃CH₂CONHSO₂Me, m. 98°. By method A were prepared in the usual manner p-MeC₆H₄SO₂NHOCCH₂Cl (X), m. 98-9° (Et₂O-petr. ether), in 52% yield; N₃CH₂CONHBz (XI), 38%, m. 137° (Et₂O-petr. ether); and N-(N-phthaloylglycyl)tosylamide, 89%, m. 295-6° (decomposition) (glacial AcOH) (from N-phthaloylglycyl chloride and II). The appropriate VI (0.02 mole) in 50-200 cc. glacial AcOH hydrogenated 5-6 hrs. over 1-2 g. Pd black, the mixture filtered, the filtrate evaporated in vacuo, the residue dissolved in a little H₂O, reevapd. in vacuo, a paste made with H₂O, and the crystalline product recrystd. from H₂O and dried in vacuo over solid KOH gave the corresponding VII; method C. Dry VI (0.01 mole) in 2 cc. dry Me₂CO treated with cooling with 7 cc. 40% HBrAcOH, kept 1-2 hrs. at room temperature, and centrifuged, the crystalline precipitate washed with Et₂O, the resulting VII.HBr (above 80% from glycine derivs.

and about 50% from alanine derivs.) dissolved in the min. amount of H₂O, adjusted dropwise with 2N NaOH to pH 6.5, and filtered, and the residue recrystd. from H₂O gave 60-70% VII; method D. In this manner were prepared the following compds. [method, % yield, m.p. (with decomposition), and R_f value in 75:15:10 EtMeCHOH-HCO₂H-H₂O given]: N-glycyltosylamide (XII).H₂O, D, -, 233°, 0.41; N-glycylmesylamide, C, 57, 176° (aqueous EtOH), 0.09; N-glycyl-p-nitrobenzenesulfonamide, D, -, 226°, 0.27; N-glycyl-p-aminobenzenesulfonamide, C, 95, 235°, 0.16; N-(DL-alanyl)tosylamide (XIII), D, -, 230°, 0.47; N-(DL-alanyl)-p-nitrobenzenesulfonamide, D, -, 343°, 0.40; N-(DL-alanyl)-p-aminobenzenesulfonamide-H₂O, C, 76, 234°, 0.22; N-(DL-valyl)tosylamide, C, 90, 243-5°, 0.55; N-(DL-valyl)-p-aminobenzenesulfonamide, C, 62, 238-40°, 0.33. XI with HBr-AcOH gave H₂NCH₂CONHBz.2HBr which in H₂O turned dark red on prolonged standing. XII and Na₂CO₃ in aqueous MeOH treated with 2,4-(O₂N)₂C₆H₃F and acidified with concentrated HCl gave the 2,4-dinitrophenyl derivative of XII, yellow, m. 225-7° (EtOAc-petr. ether). Similarly was prepared the 2,4-dinitrophenyl derivative of XIII, yellow, m. 186° (EtOAc-petr. ether). PhCH₂O₂CNHCH₂CO₂H (0.02 mole) treated in tetrahydrofuran with ClCO₂Et, the resulting anhydride shaken with 3.4 g. II in 10 cc. 2N NaOH, tetrahydrofuran evaporated, the residual mixture filtered, the filtrate

adjusted

with HCl to pH (about) 2, the precipitate dissolved in aqueous NaHCO₃, and the solution

adjusted with dilute HCl to pH 6 gave 40% PhCH₂O₂C derivative (XIV) of XII, m. 155-6° (H₂O). PhCH₂O₂CNHCH₂COSPh (3 g.) in 30 cc. tetrahydrofuran mixed with 1.7 g. II in 5 cc. 2N NaOH, diluted with H₂O, heated 4 hrs. at 60°, and worked up in the usual manner gave 2 g. XIV. XII (2.46 g.) in 5 cc. 2N NaOH treated with stirring and cooling with 1.7 g. PhCH₂O₂CCl and 5 cc. 2N NaOH, the mixture washed with Et₂O, acidified with HCl, and filtered after 1 hr. gave 1.55 g. XIV, m. 155-6°. XIII gave similarly the PhCH₂O₂C derivative, m. 115-16°. Carbobenzyloxy-DL-alanine and XII gave (by the anhydride method) 82% N-(carbobenzyloxy-alanylglycyl)tosylamide, m. 204° (decomposition) (aqueous EtOH), which (cleaved with HBr-AcOH) gave 78% N-(DL-alanylglycyl)tosylamide-HBr (XV.HBr), m. 190-5° (decomposition), which (neutralized in concentrated aqueous solution) yielded 41% XV, m. 130-2° (decomposition) (H₂O). AcCO₂H and XII (condensed by the POCl₃ method) gave 11% AcCO derivative (XVI) of XII, m. 207°. IX gave similarly 30% N-Me derivative of XVI, m. 98-9°. X (4.95 g.) in 50 cc. 40% aqueous Me₃N kept 1 week and filtered yielded N,N,N-trimethylglycyl-p-toluenesulfonamide betaine, m. 295-90° (decomposition) (H₂O). XII (0.69 g.) in 6 cc. N NaOH treated with 0.62 cc. BzH and 3 cc. EtOH, kept 2 weeks at room

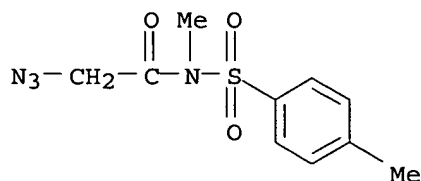
temperature,

the mixture filtered, the residue dissolved in a little warm H₂O, the solution acidified with HCl, washed with Et₂O, and evaporated in vacuo, and the residue recrystd. (from H₂O with C) gave 30% N-(DL-3-phenylseryl)tosylamide, decomposing above 200°. The infrared absorption spectra of XIII and XIII.HCl were recorded.

IT 99069-72-4, Acetamide, 2-azido-N-methyl-N-p-tolylsulfonyl-
(preparation of)

RN 99069-72-4 CAPLUS

CN Acetamide, 2-azido-N-methyl-N-p-tolylsulfonyl- (6CI) (CA INDEX NAME)



L69 ANSWER 131 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1948:4167 CAPLUS

DOCUMENT NUMBER: 42:4167

ORIGINAL REFERENCE NO.: 42:907h-i,908a-i,909a

TITLE: Reactions of 2-(phenylsulfonyl)benzothiazolone with aromatic amines

AUTHOR(S): McClelland, Ernest W.; Peters, Raymond H.

CORPORATE SOURCE: King's Coll., Strand, UK

SOURCE: Journal of the Chemical Society, Abstracts (1947) 1229-34

CODEN: JCSAAZ; ISSN: 0590-9791

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 33, 6306.6. 2-(Phenylsulfonyl)-1,2-benzisothiazolone (I) (5 g.) and 5 g. PhNMe₂ in 20 ml. EtOH, refluxed 3 hrs., give 4-dimethylamino-2'-(phenylsulfonylcarbonyl)diphenyl sulfide (II), PhSO₂NHCOC₆H₄SC₆H₄NMe₂, yellow, m. 172°; the Na salt (m. 308°, slightly soluble in H₂O) with Me₂SO, yields a Me derivative, C₂₂H₂₂O₃N₂S₂, m. 144° (hydrolysis yields PhSO₂NHMe, m. 31°). Hydrolysis of II by boiling 2 hrs. with concentrated HCl gives 4-dimethylamino-2'-carboxydiphenyl sulfide (III), pale green, m. 250-60° (decomposition). (4-Me₂NC₆H₄)₂S₂, reduced with 3 g. Sn and 30 cc. concentrated HCl, made alkaline with 100 cc. 35% aqueous NaOH, heated

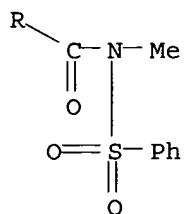
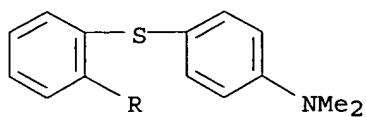
while a stream of N is passed through the solution, a diazotized solution of 8.8

g. o-H₂NC₆H₄CO₂H added, and heated an addnl. 5 min., gives III, which seps. with 1 mol. EtOH; each sample of III yields an Et ester, C₁₇H₁₉O₂NS, m. 143°. I and PhNMeEt yield the 4-(methylethylamino) analog of II, pale yellow, m. 141°; hydrolysis gives the 4-(methylethylamino) analog of III, greenish, m. about 230° (decomposition); it was also synthesized from (4-MeEtNC₆H₄)₂S₂. 4-(Benzylmethylamino) analog of II, pale green, with 1 mol. EtOH, m. 123°; 4-(benzylmethylamino) analog of III, pale green, m. 194°. 4-Methylamino analog of II, m. 142°, turns green in the air. NO derivative, golden, m. 170°; hydrolysis with 60% H₂SO₄ gives 4-methylamino-2'-carboxydiphenyl sulfide, buff, m. 224°; Ac derivative m. 184°. 4-Ethylamino analog of II, cream, m. 150°; NO derivative, red, m. 138°, turns yellow on heating; hydrolysis with 60% H₂SO₄ gives 4-ethylamino-2'-carboxydiphenyl sulfide, buff, m. 224°; Ac derivative m. 184°. I and PhNH₂ give the 4-NH₂ analog of II, m. 167° (incorrectly formulated in C.A. 33, 6306.6); perchlorate, m. 221° (decomposition), seps. with 1 mol. H₂O; the diazo solution yields an azo-2-naphthol, red, m. 148°; hydrolysis with 60% gives 4-H₂NC₆H₄SC₆H₄CO₂H-2. I and o-MeC₆H₄NH₂ give 4-amino-2'-(phenylsulfonylcarbonyl)-3-methyldiphenyl sulfide, m. 118°; perchlorate, cream, m. 225° (decomposition); the corresponding azo-2-naphthol, dark red, m. 136°. II (5 g.) and 20 cc. concentrated H₂SO₄, warmed 1 hr. at 50°, give 2-dimethylaminothiaxanthone, orange, m. 122°; the H₂SO₄ solution has a green fluorescence; it results also from III and concentrated H₂SO₄. A 2nd

product is presumably 4-dimethylamino-3-sulfo-2'-carboxydiphenyl sulfide, m. 318°; heated 0.5 hr. at 150° with 10 parts concentrated H₂SO₄, it yields 2-dimethylamino-3-thiaxanthonesulfonic acid, with 1 mol. H₂O, not melted at 310°; the Na salt m. 310°; the K salt, with 2 mols. H₂O, m. 95° (anhydrous, m. 230°). 2-(Methylethylamino)thiaxanthone, pale orange, m. 120°; 4-(methylethylamino)-3-sulfo-2'-carboxydiphenyl sulfide m. 314° (decomposition); Na salt m. 272° K salt m. 215°. 2-(Benzylmethylamino)thiaxanthone, yellow, m. 149.5°; 4-(benzylmethylamino)-3-sulfo-2'-carboxydiphenyl sulfide m. 286° (decomposition). 2-Methylaminothiaxanthone, yellow, m. 158°, or red, becoming yellow at about 144°; 4-methylamino-3-sulfo-2'-carboxydiphenyl sulfide m. 321° (decomposition). 2-Ethylaminothiaxanthone, orange, m. 134°; no sulfonic acid could be isolated. 2-Aminothiaxanthone yields a di-Ac derivative, yellow, m. 245°. 4-Amino-3-sulfo-2'-carboxydiphenyl sulfide m. above 320°. I and p-MeC₆H₄NH₂ in EtOH, refluxed 5 hrs., give the lactam of 2-amino-2'-carboxy-5-methyldiphenyl sulfide (IV), C₁₄H₁₁ONS, m. 274°; H₂O₂ in AcOH gives the sulfone, C₁₄H₁₁O₃NS, m. above 320°. Hydrolysis (4 hrs.) with 65% H₂SO₄ gives 4-amino-1-methylthiaxanthone and 2-amino-2'-carboxy-5-methyldiphenyl sulfide, C₁₄H₁₃O₂NS, pale buff, m. 170°. I and p-MeOC₆H₄NH₂ give the 5-MeO analog of IV, m. 235° (Ac derivative, m. 165°); sulfone m. 246° (Ac derivative, m. 194°); the same lactam results from 2-(p-tolylsulfonyl)-1,2-benzoisothiazolone; hydrolysis by acid gives 2-amino-2'-carboxy-5-methoxydiphenyl sulfide, buff, m. 168° (perchlorate, m. 210° (decomposition)); a by-product of the hydrolysis appears to be 4-amino-1-hydroxythiaxanthone, red, m. 238°; Me ether, yellow, m. 168°. I and p-ClC₆H₄NH₂ give the lactam of 5-chloro-2-amino-2'-carboxydiphenyl sulfide, m. 321°; the acid m. 183°. Lactam of 2-amino-2'-carboxydiphenyl sulfide, m. 256°; sulfone m. 290°. The di-p-toluidide (V), C₂₈H₂₄O₂N₂S₂, m. 233°, and the bis(p-nitroanilide), C₂₆H₁₈O₆N₄S₂, light brown, m. 263°, of 2,2'-dithiodibenzoic acid were prepared from 2,2'-dithiodibenzoyl chloride (VI) and the corresponding amine. Passage of Cl into VI covered with CCl₄ until solution resulted and addition of the solution to ice-cold p-MeC₆H₄NH₂ in CCl₄ give 2-p-tolyl-1,2-benzoisothiazolone, m. 135°; 2-(p-nitrophenyl) analog (VII) m. 238°; oxidation of VII with H₂O₂ in hot AcOH gives N-(p-nitrophenyl)saccharin, pale yellow, m. 229°. V (3 g.) in 50 cc. CCl₄, treated with 2 g. Br in 10 cc. AcOH, the precipitate of the bromothiol

boiled with 100 cc. AcOH, and the thiazolone oxidized with H₂O₂ in hot HOAc gives VII. PhNMe₂ did not react with the 2-Me, 2-Ph, 2-p-tolyl, 2-(p-nitrophenyl), or 2-Bz derivs. of I. Thus, this reaction of the (arylsulfonyl)-1,2-benzoisothiazolones depends on the joint action of the SO₂ and CO groups attached to the same N atom, the simultaneous presence of which facilitates the rupture of the heterocyclic ring.

IT 857487-10-6, Benzamide, o-(p-dimethylaminophenylthio)-N-methyl-N-(phenylsulfonyl)-
(preparation of)
RN 857487-10-6 CAPLUS
CN Benzamide, o-(p-dimethylaminophenylthio)-N-methyl-N-(phenylsulfonyl)-
(5CI) (CA INDEX NAME)



=> file registry

FILE 'REGISTRY' ENTERED AT 15:25:16 ON 29 DEC 2005
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STRUCTURE FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5
DICTIONARY FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> file caplus

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FILE COVERS 1907 - 29 Dec 2005 VOL 144 ISS 1
FILE LAST UPDATED: 28 Dec 2005 (20051228/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.

They are available for your review at:

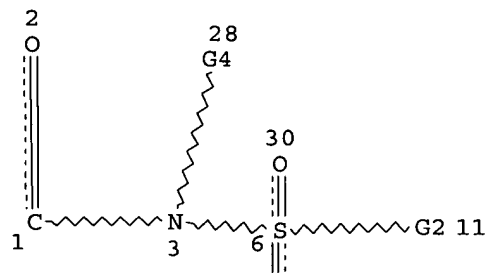
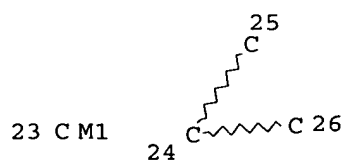
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L3 STR

C 27



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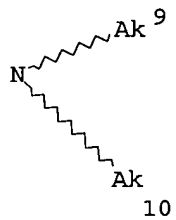
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G3 22

N 7



REP G20=(1-5) 20-15 20-18

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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

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Structure attributes must be viewed using STN Express query preparation.
 L11 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
 L13 STR

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22
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O
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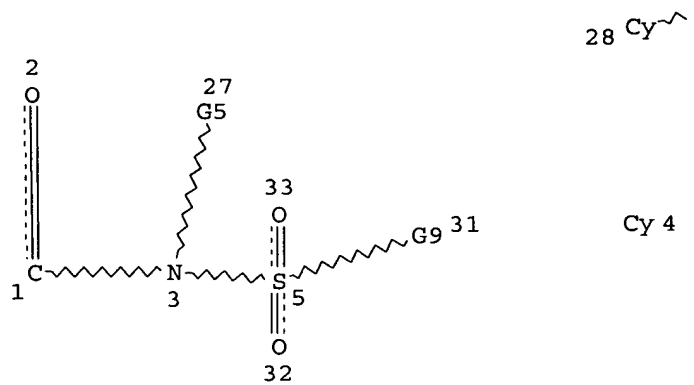
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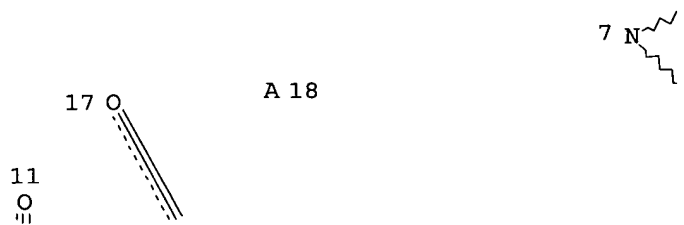
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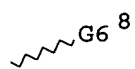
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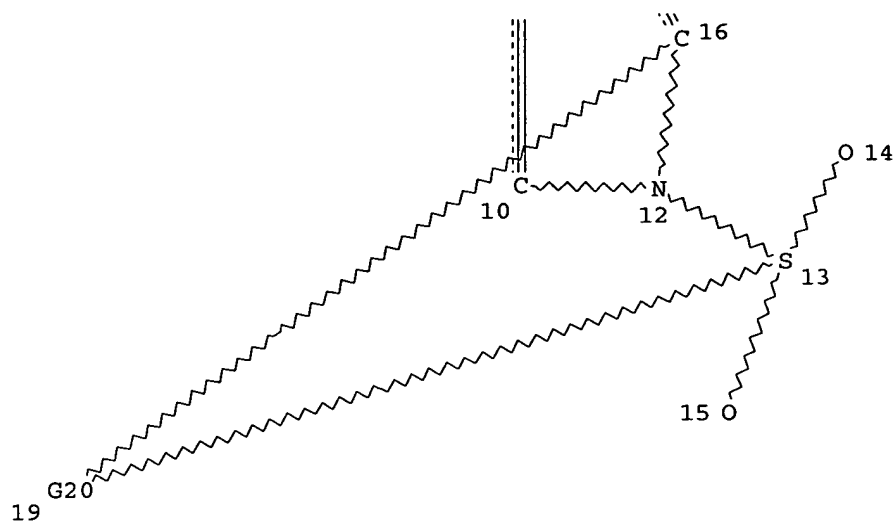
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Page 2-A



Page 2-B



Page 3-A

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VAR G5=4/24/25

VAR G6=24/25

VAR G8=21/23/29

VAR G9=4/6/7/24/25/28

REP G20=(1-5) 18-13 18-16

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

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L21      754 SEA FILE=REGISTRY SUB=L15 SSS FUL L11
L24      STR

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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L26      691 SEA FILE=REGISTRY SUB=L19 SSS FUL L24
L28      STR

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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L30      372 SEA FILE=REGISTRY SUB=L21 SSS FUL L28
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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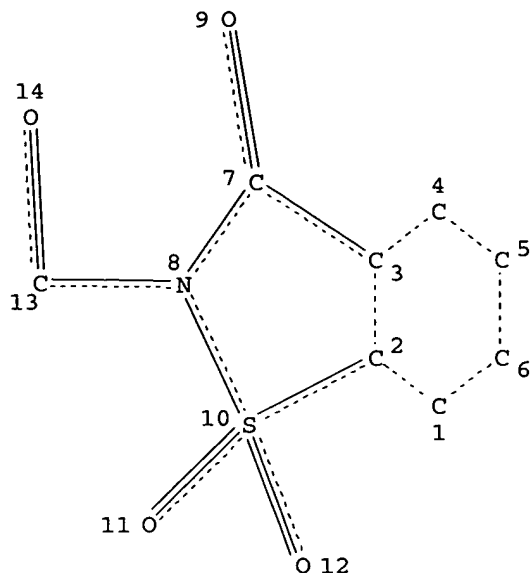
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Structure attributes must be viewed using STN Express query preparation.

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L41      467 SEA FILE=REGISTRY ABB=ON PLU=ON L40 OR L36
L42      172 SEA FILE=CAPLUS ABB=ON PLU=ON L41
L70      STR

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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

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 L79 63 SEA FILE=REGISTRY SUB=L21 SSS FUL L70
 L80 103 SEA FILE=REGISTRY ABB=ON PLU=ON L78 OR L79
 L81 47 SEA FILE=CAPLUS ABB=ON PLU=ON L80
~~L114 22 SEA FILE=CAPLUS ABB=ON PLU=ON L42 AND L81~~

=> d ibib abs hitstr L114 1-22

L114 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:982594 CAPLUS

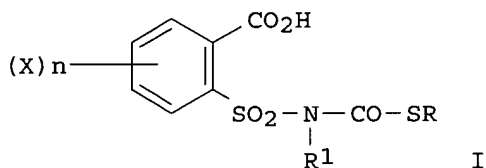
DOCUMENT NUMBER: 143:286179

TITLE: Preparation of N-(phenylsulfonyl)thiolcarbamates and

agrochemical fungicides containing them
 INVENTOR(S): Itsuki, Yoshinori; Shibata, Takashi; Kajiki, Ryu;
 Kose, Katsumi; Yamaji, Koji; Takahashi, Satoru
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan; Ihara
 Chemical Industry Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005239614	A2	20050908	JP 2004-50263	20040225
PRIORITY APPLN. INFO.:			JP 2004-50263	20040225
OTHER SOURCE(S):	MARPAT	143:286179		

GI



AB The title compds. I [R = H, C1-12 alkyl, C2-6 alkenyl, C1-6 alkylthio-C1-6 alkyl, (un)substituted benzyl (substituent = halo, NO2, cyano, C1-6 alkyl, NR2R3, etc.), (un)substituted Ph, O, S, and/or N-containing C3-10 (un)substituted heterocyclyl; R1 = H, C1-6 alkyl, C2-6 alkenyl, C1-6 cyanoalkyl, (un)substituted benzyl; R2, R3 = H, C1-6 alkyl, C2-6 alkenyl, (un)substituted phenyl; R4, R5 = H, C1-6 alkyl; X = halo, NO2, cyano, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, NR2R3; n = 0-4] or their salts are prepared Agrochem. fungicides containing I (salts) are also claimed. Thus, application of 2-methylthiocarbonylamino-sulfonylbenzoic acid, prepared by reacting saccharin Na with ClCOSMe and hydrolyzing the N-acylated product, to rice seedlings showed ≥80% control rate against *Piricularia oryzae*.

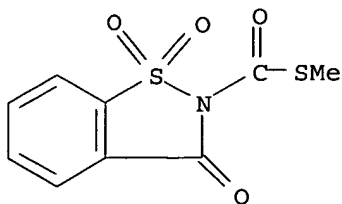
IT 863554-51-2P 863554-54-5P 863554-55-6P
 863554-56-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

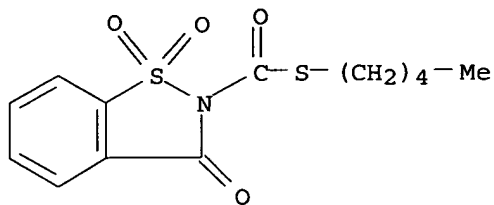
(preparation of N-(phenylsulfonyl)thiolcarbamates as agrochem. fungicides)

RN 863554-51-2 CAPLUS

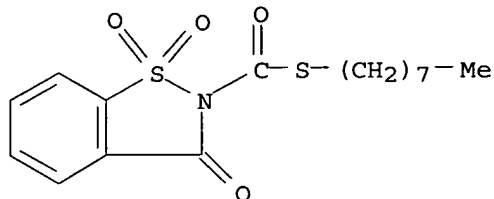
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 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-54-5 CAPLUS

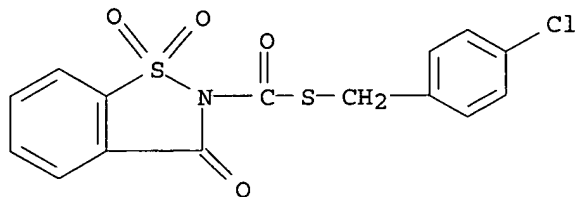
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1,1-dioxide (9CI) (CA INDEX NAME)

RN 863554-55-6 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-octyl ester,
1,1-dioxide (9CI) (CA INDEX NAME)

RN 863554-56-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-[(4-chlorophenyl)methyl] ester, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:961974 CAPLUS

DOCUMENT NUMBER: 143:266910

TITLE: Preparation of benzisothiazoline derivatives as
agricultural or horticultural plant disease control
agentsINVENTOR(S): Itsuki, Yoshinori; Shibata, Masaru; Kajiki, Ryu;
Furuse, Katsumi; Yamaji, Kouji; Takahashi, SatoruPATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan; Ihara
Chemical Industry Co., Ltd.

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

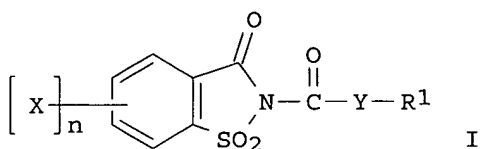
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRIORITY APPLN. INFO.:			JP 2004-50262	A 20040225
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GI				

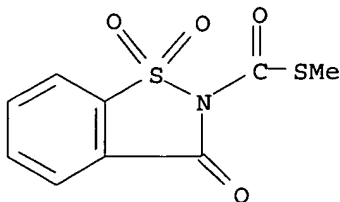


AB Title compds. I [Y = O, S; R1 = alkyl, etc. when Y = O; R1 = alkyl, etc. when Y = S; X = halo, etc.; n = 0-4] were prepared For example, treatment of sodium saccharin with heptyl chloroformate afforded 2-heptyloxycarbonyl-1,2-benzoylthiazolin-3-one 1,1-dioxide (II) in 80% yield. Compound II controlled Pyricularia oryzae by 80-100%. Compds. I are claimed useful as agricultural or horticultural plant disease control agents. Formulations are given.

IT **863554-51-2P 863554-52-3P 863554-53-4P**
863554-54-5P 863554-55-6P 863554-56-7P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzisothiazoline derivs. as agricultural or horticultural plant disease control agents)

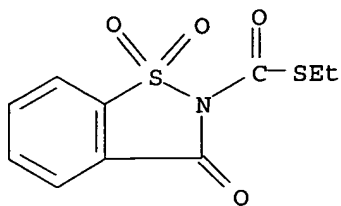
RN 863554-51-2 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-methyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)

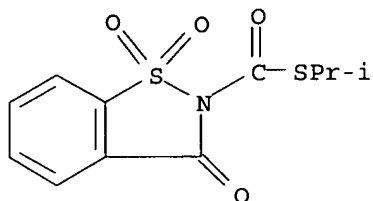


RN 863554-52-3 CAPLUS

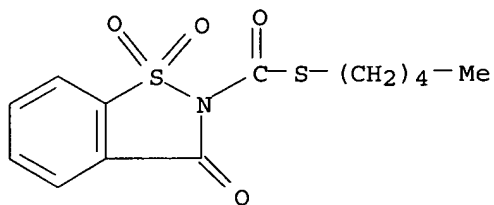
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



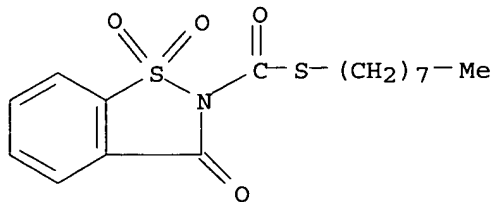
RN 863554-53-4 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-(1-methylethyl)
 ester, 1,1-dioxide (9CI) (CA INDEX NAME)



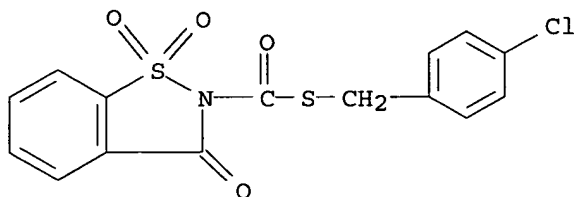
RN 863554-54-5 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-pentyl ester,
 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-55-6 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-octyl ester,
 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-56-7 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-[(4-
 chlorophenyl)methyl] ester, 1,1-dioxide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L114 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:638826 CAPLUS

DOCUMENT NUMBER: 143:149406

TITLE: Acoustic sensors and methods

INVENTOR(S): Baetzold, John P.; Benson, Karl E.; Bommarito, Mario G.; Daniels, Michael P.; Everaerts, Albert I.; Flanigan, Peggy-Jean P.; Free, Benton M.; Kipke, Cary A.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Nguyen, Lang N.; Shah, Rahul; Stark, Peter A.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: PCT Int. Appl., 128 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066092	A2	20050721	WO 2004-US42382	20041217
WO 2005066092	A3	20051013		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2005112672	A1	20050526	US 2004-987522	20041112
US 2005227076	A1	20051013	US 2004-987075	20041112
WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		
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MR, NE, SN, TD, TG
 WO 2005075973 A2 20050818 WO 2004-US42662 20041217
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 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-533169P P 20031230
 US 2004-987075 A 20041112
 US 2004-987522 A 20041112
 US 2003-713174 A2 20031114
 US 2003-714053 A2 20031114

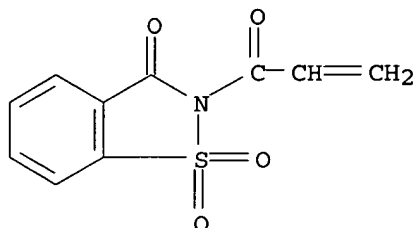
AB This article discloses acoustic sensors, preferably surface acoustic wave sensors, and more preferably shear horizontal surface acoustic wave sensors that include soluble polymers, monomers (optionally mixed with oligomers and/or polymers formed from such monomers), or multifunctional compds., for example, that can function as either waveguide materials, immobilization materials for secondary capture agents (e.g., antibodies), or both.

IT 41643-17-8P 851778-65-9P 852233-93-3P
 852233-95-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (acoustic sensors and methods)

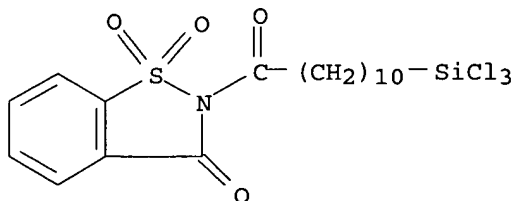
RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



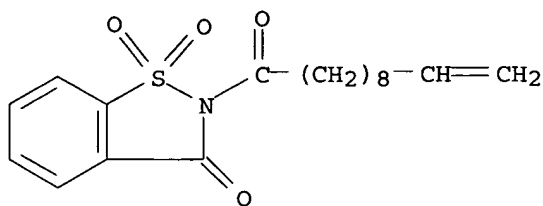
RN 851778-65-9 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

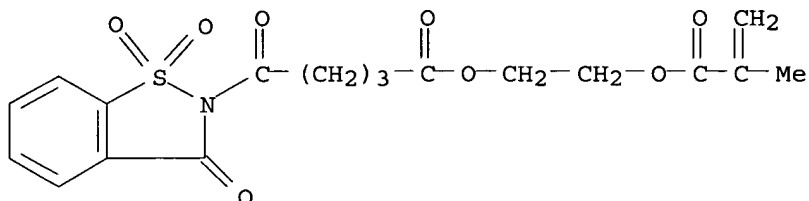


RN 852233-93-3 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-10-undecenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)



RN 852233-95-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA
INDEX NAME)



L114 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:638661 CAPLUS

DOCUMENT NUMBER: 143:134114

TITLE: Soluble polymers as amine capture agents and methods

INVENTOR(S): Benson, Karl E.; Bommarito, G. Marco; Everaerts,
Albert I.; Lakshmi, Brinda B.; Leir, Charles M.;
Moore, George G. I.; Shah, Rahul R.; Stark, Peter A.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005065370	A2	20050721	WO 2004-US43917	20041229
WO 2005065370	A3	20050811		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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WO 2005064349 A2 20050714 WO 2004-US42455 20041217
 WO 2005064349 A3 20051110
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 MR, NE, SN, TD, TG

WO 2005075973 A2 20050818 WO 2004-US42662 20041217
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 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-533169P P 20031230

US 2004-15399 A 20041217

AB The invention relates to soluble polymers and methods for the preparation thereof,

wherein the polymers of the present invention have pendant acylsulfonamide amine-reactive groups that can be used for the capture of amine containing materials. Thus, mixing 154 mL DMF with 4-carboxybenzenesulfonamide (I) 30.0, succinic anhydride 16.41 and triethylamine 33.19 g at 50° under N for 4 h, after cooling to room temperature, combining the resulting mixture with 18.27 mL Ac2O, stirring for 1 h and working up gave a N-succinimide compound of I which was converted to an acyl chloride using thionyl chloride. Esterifying the succinimide with 2-hydroxyethyl methacrylate and polymerizing the resulting ester with a comonomer gave a polymer having amine-reactive pendant.

IT 859232-53-4P 859232-54-5P 859232-59-0P

859232-60-3P 859232-61-4P 859232-62-5P

RL: ARU (Analytical role, unclassified); IMF (Industrial manufacture);

ANST (Analytical study); PREP (Preparation)

(manufacture of soluble polymers as amine capture agents and method of use)

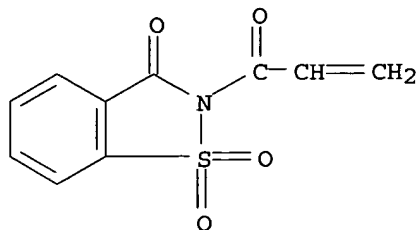
RN 859232-53-4 CAPLUS

CN 2-Propenoic acid, methyl ester, polymer with 2-(1-oxo-2-propenyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide (9CI) (CA INDEX NAME)

CM 1

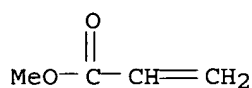
CRN 41643-17-8

CMF C10 H7 N O4 S



CM 2

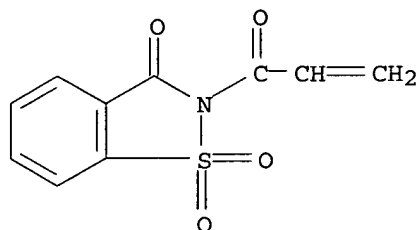
CRN 96-33-3
CMF C4 H6 O2



RN 859232-54-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-(1-oxo-2-propenyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide (9CI) (CA
INDEX NAME)

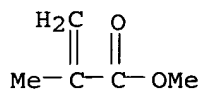
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CRN 41643-17-8
CMF C10 H7 N O4 S



CM 2

CRN 80-62-6
CMF C5 H8 O2

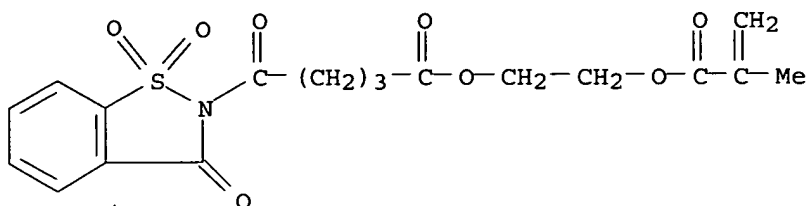


RN 859232-59-0 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with
methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 852233-95-5

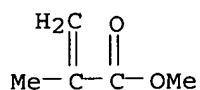
CMF C18 H19 N O8 S



CM 2

CRN 80-62-6

CMF C5 H8 O2



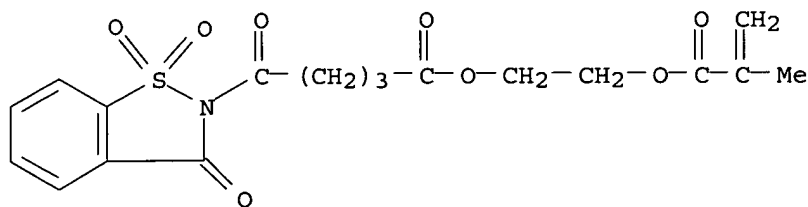
RN 859232-60-3 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with
 benzoylphenyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA
 INDEX NAME)

CM 1

CRN 852233-95-5

CMF C18 H19 N O8 S

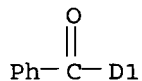
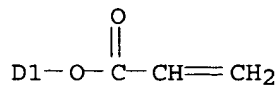


CM 2

CRN 50855-88-4

CMF C16 H12 O3

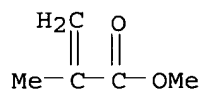
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CM 3

CRN 80-62-6

CMF C5 H8 O2



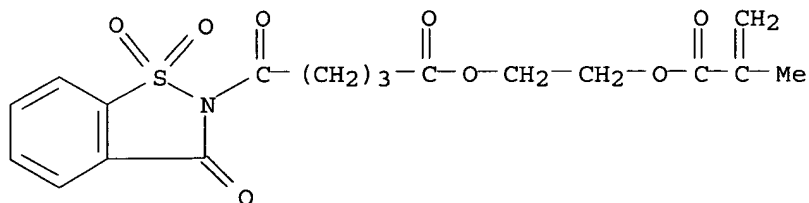
RN 859232-61-4 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with
N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 852233-95-5

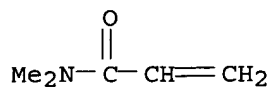
CMF C18 H19 N O8 S



CM 2

CRN 2680-03-7

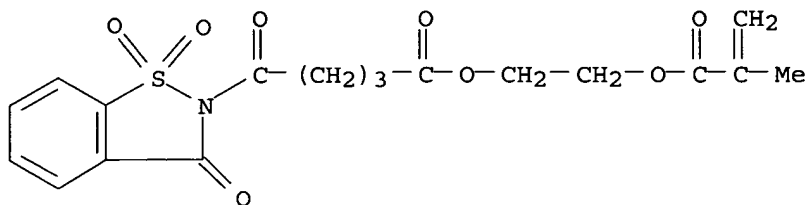
CMF C5 H9 N O



RN 859232-62-5 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with
 methyl 2-methyl-2-propenoate and rel-(1R,2R,4R)-1,7,7-
 trimethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate (9CI) (CA INDEX
 NAME)

CM 1

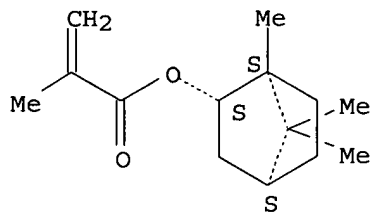
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CM 2

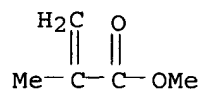
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Relative stereochemistry.

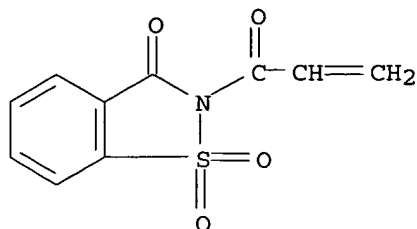


CM 3

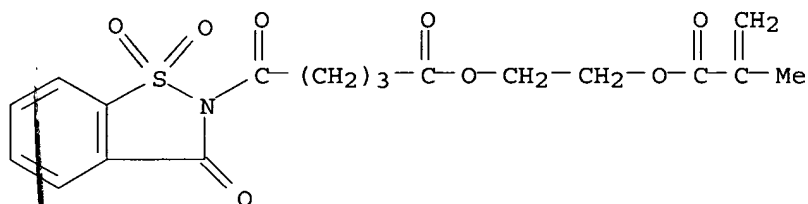
CRN 80-62-6
 CMF C5 H8 O2



IT **41643-17-8P**, 2-Acryloylsaccharin **852233-95-5P**
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)
 (manufacture of soluble polymers as amine capture agents and method of use)
 RN 41643-17-8 CAPLUS
 CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



RN 852233-95-5 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA
 INDEX NAME)



L114 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:453738 CAPLUS
 DOCUMENT NUMBER: 142:478402
 TITLE: N-sulfonylaminocarbonyl containing compounds
 INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.;
 Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G.
 I.; Shah, Rahul R.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S.
 Ser. No. 713,174.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005112672	A1	20050526	US 2004-987522	20041112
US 2005107615	A1	20050519	US 2003-713174	20031114
WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		

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 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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WO 2005066092 A2 20050721 WO 2004-US42382 20041217
WO 2005066092 A3 20051013

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WO 2005075973 A2 20050818 WO 2004-US42662 20041217

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MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-713174 A2 20031114
US 2003-533169P P 20031230
US 2004-987075 A 20041112
US 2004-987522 A 20041112

OTHER SOURCE(S): MARPAT 142:478402

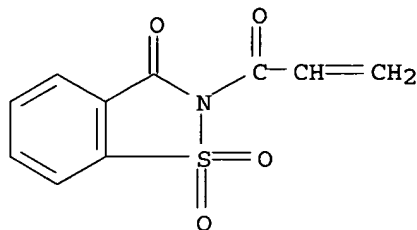
AB Comps. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

IT 41643-17-8P 851778-58-0P 851778-59-1P
851778-60-4P 851778-61-5P 851778-62-6P
851778-63-7P 851778-65-9P 851778-69-3P
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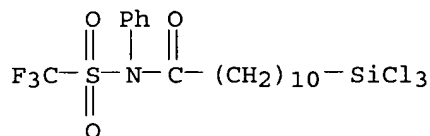
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(N-sulfonylaminocarbonyl containing comps.)

RN 41643-17-8 CAPLUS

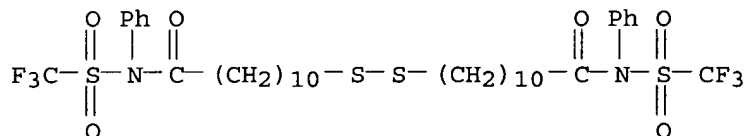
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)



RN 851778-58-0 CAPLUS

CN Undecanamide, N-phenyl-11-(trichlorosilyl)-N-[(trifluoromethyl)sulfonyl]-
(9CI) (CA INDEX NAME)

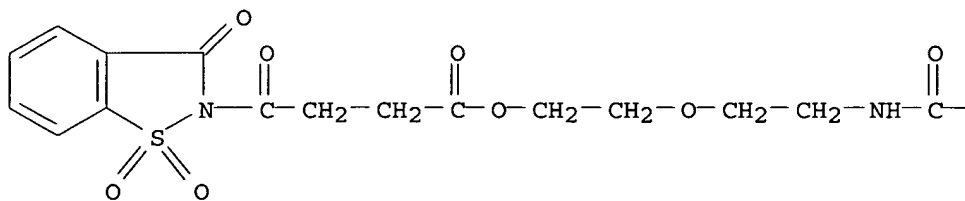
RN 851778-59-1 CAPLUS

CN Undecanamide, 11,11'-dithiobis[N-phenyl-N-[(trifluoromethyl)sulfonyl]]-
(9CI) (CA INDEX NAME)

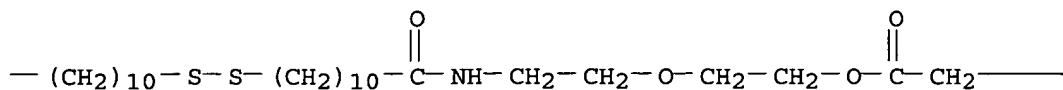
RN 851778-60-4 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-butanoic acid, γ,3-dioxo-,
7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl
ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

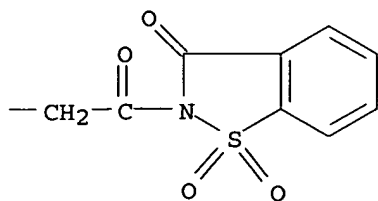
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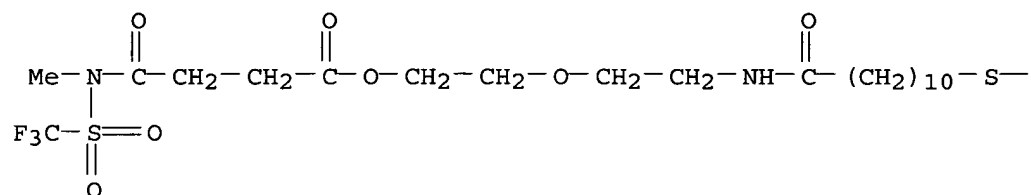
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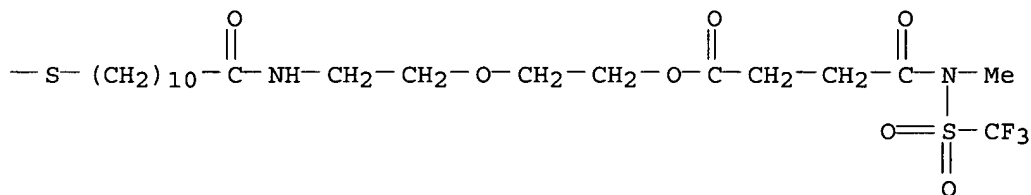
RN 851778-61-5 CAPLUS

CN Butanoic acid, 4-[methyl[(trifluoromethyl)sulfonyl]amino]-4-oxo-,
7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl
ester (9CI) (CA INDEX NAME)

PAGE 1-A



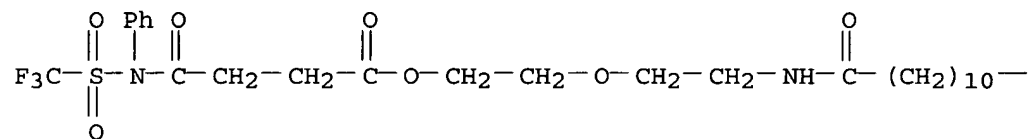
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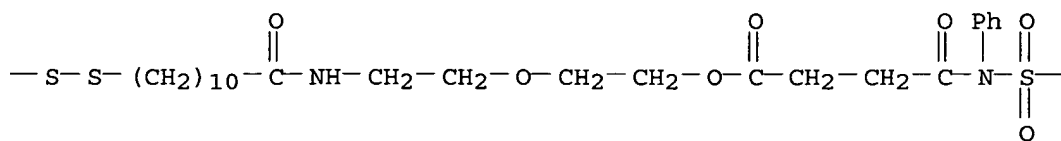
RN 851778-62-6 CAPLUS

CN Butanoic acid, 4-oxo-4-[phenyl[(trifluoromethyl)sulfonyl]amino]-,
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ester (9CI) (CA INDEX NAME)

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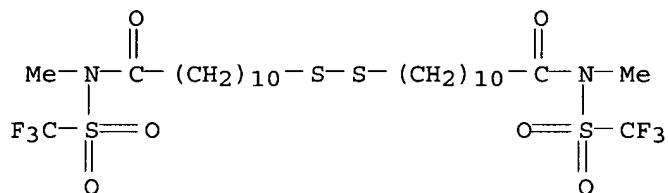
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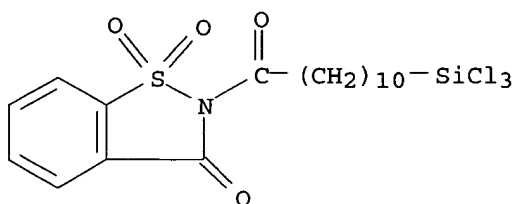
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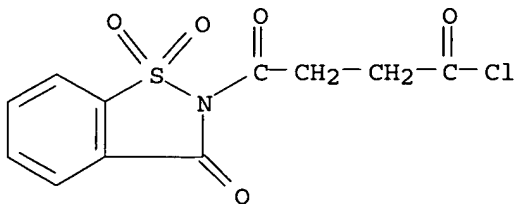
RN 851778-63-7 CAPLUS

CN Undecanamide, 11,11'-dithiobis [N-methyl-N-[(trifluoromethyl) sulfonyl] -
(9CI) (CA INDEX NAME)

RN 851778-65-9 CAPLUS

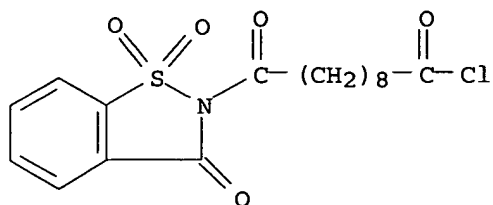
CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-,
1,1-dioxide (9CI) (CA INDEX NAME)

RN 851778-69-3 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-butanoyl chloride, γ,3-dioxo-, 1,1-dioxide
(9CI) (CA INDEX NAME)

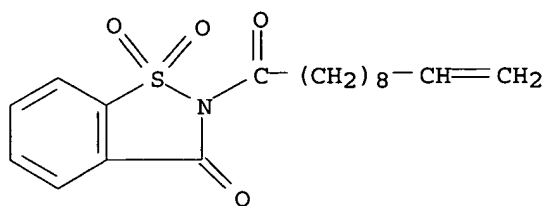
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CN 1,2-Benzisothiazole-2(3H)-decanoyl chloride, 1,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



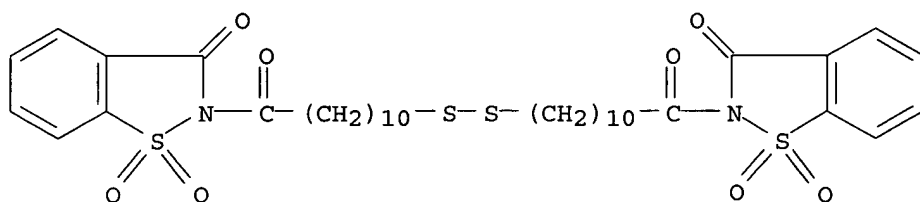
RN 852233-93-3 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-10-undecenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



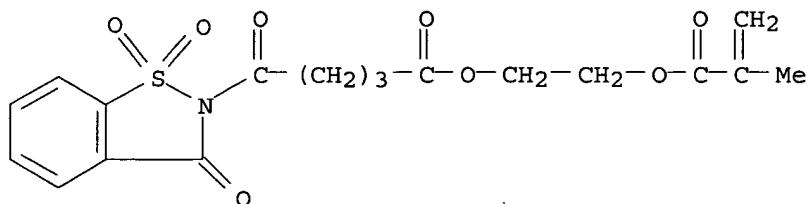
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CN 1,2-Benzisothiazol-3(2H)-one, 2,2'-[dithiobis(1-oxo-11,1-undecanediy)]bis-, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)



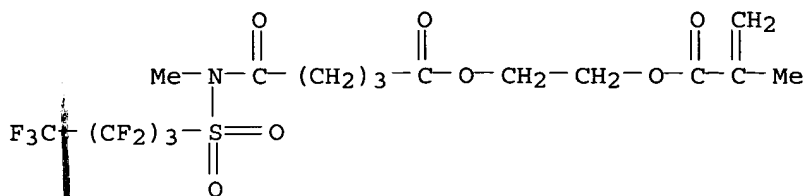
RN 852233-95-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 852233-96-6 CAPLUS

CN Pentanoic acid, 5-[methyl[(nonafluorobutyl)sulfonyl]amino]-5-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



1114 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:431463 CAPLUS

DOCUMENT NUMBER: 142:478409

TITLE: N-sulfonylaminocarbonyl containing compounds

INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.;
Lakshmi, Brinda B.; Leir, Charles M.; Moore, George
G.; Shah, Rahul

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: U.S. Pat. Appl. Publ., 37 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107615	A1	20050519	US 2003-713174	20031114
US 2005112672	A1	20050526	US 2004-987522	20041112
WO 2005049590	A2	20050602	WO 2004-US37965	20041112
WO 2005049590	A3	20050825		

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
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PRIORITY APPLN. INFO.: US 2003-713174 A2 20031114
US 2003-533169P P 20031230

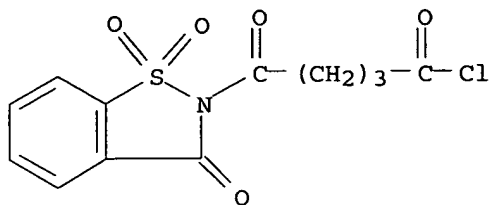
OTHER SOURCE(S): MARPAT 142:478409

AB Comps. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

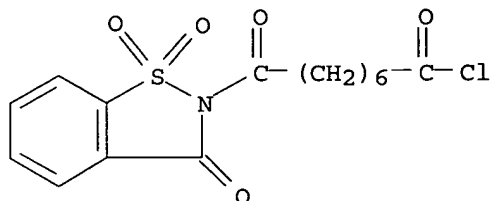
IT 851778-67-1 851778-68-2 851778-69-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(N-sulfonylaminocarbonyl containing compds.)

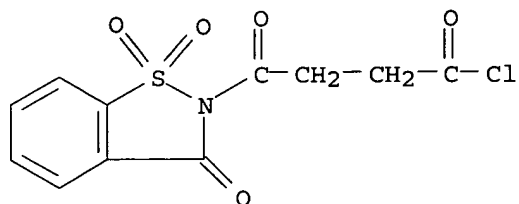
RN 851778-67-1 CAPLUS
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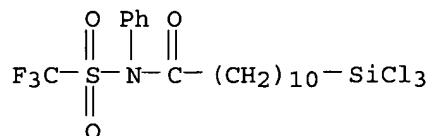
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 (9CI) (CA INDEX NAME)



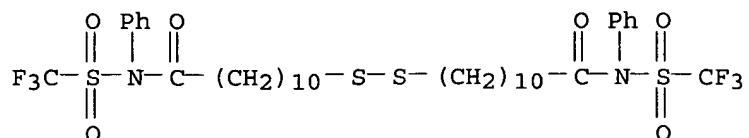
RN 851778-69-3 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-butanoyl chloride, γ ,3-dioxo-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



IT 851778-58-0P 851778-59-1P 851778-60-4P
 851778-61-5P 851778-62-6P 851778-63-7P
 851778-65-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (N-sulfonylaminocarbonyl containing compds.)
 RN 851778-58-0 CAPLUS
 CN Undecanamide, N-phenyl-11-(trichlorosilyl)-N-[(trifluoromethyl)sulfonyl]-
 (9CI) (CA INDEX NAME)



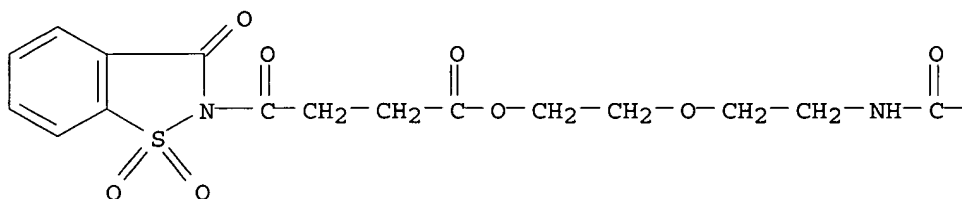
RN 851778-59-1 CAPLUS

CN Undecanamide, 11,11'-dithiobis [N-phenyl-N-[(trifluoromethyl) sulfonyl] -
(9CI) (CA INDEX NAME)

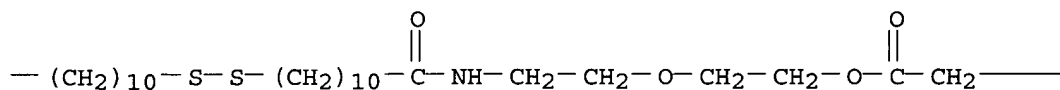
RN 851778-60-4 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-butanoic acid, γ ,3-dioxo-,
7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl
ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

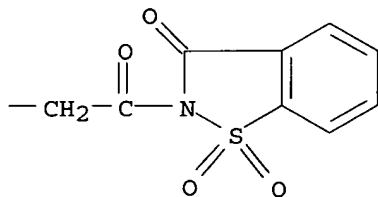
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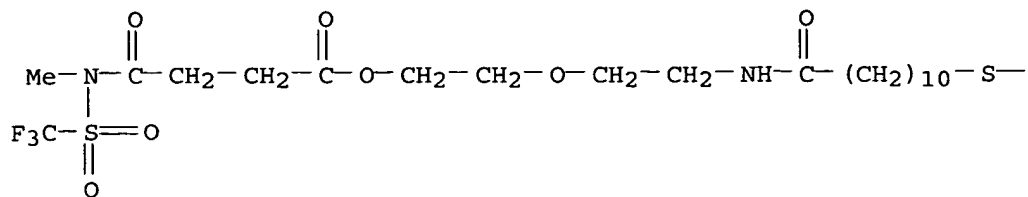
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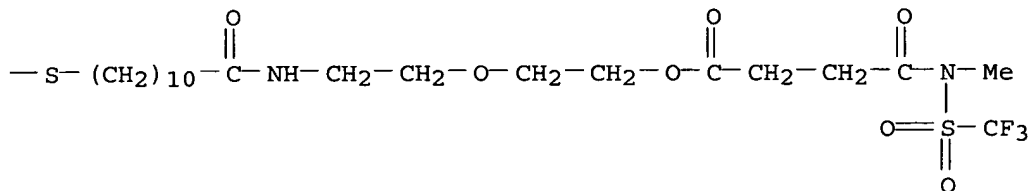
RN 851778-61-5 CAPLUS

CN Butanoic acid, 4-[methyl[(trifluoromethyl) sulfonyl] amino]-4-oxo-,
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ester (9CI) (CA INDEX NAME)

PAGE 1-A



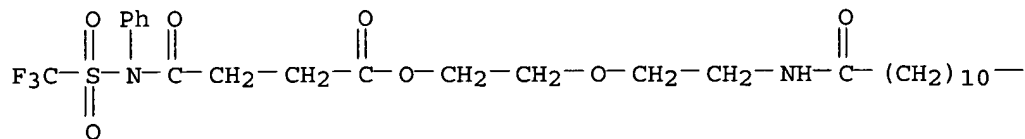
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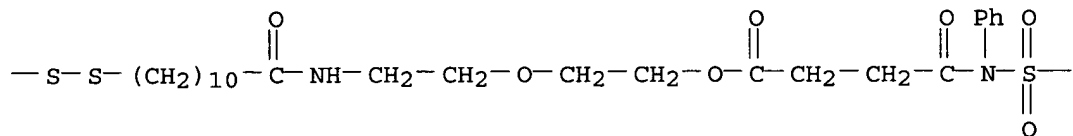
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PAGE 1-B

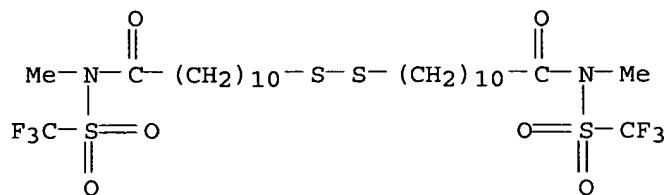


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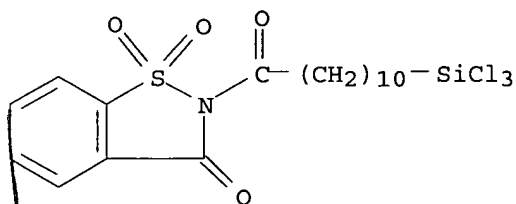
RN 851778-63-7 CAPLUS

CN Undecanamide, 11,11'-dithiobis[N-methyl-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 851778-65-9 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



1114 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:36727 CAPLUS

DOCUMENT NUMBER: 140:112981

TITLE: Ink containing dyes and acid precursors for inkjet, ink set for inkjet recording and inkjet recording method

INVENTOR(S): Taguchi, Toshiki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 34 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1380623	A1	20040114	EP 2003-15588	20030714
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004043665	A2	20040212	JP 2002-204171	20020712
US 2004011247	A1	20040122	US 2003-617818	20030714
PRIORITY APPLN. INFO.:			JP 2002-204171	A 20020712

OTHER SOURCE(S): MARPAT 140:112981

AB An ink for inkjet recording comprises a dye, water, a water-miscible organic solvent and a precursor of acids, and thereby is rendered resistant to image blur even under a high humidity condition.

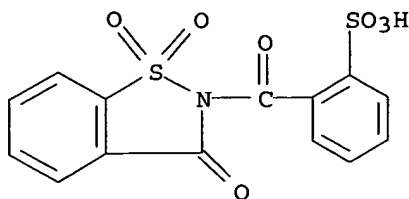
IT 644979-44-2

RL: MOA (Modifier or additive use); USES (Uses)

(acid precursor; ink containing dyes and acid precursors for inkjet, ink set for inkjet recording and inkjet recording method)

RN 644979-44-2 CAPLUS

CN Benzenesulfonic acid, 2-[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, potassium salt (9CI) (CA INDEX NAME)



● K

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

✓ L114 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:288810 CAPLUS

DOCUMENT NUMBER: 137:83888

TITLE: Spectra-structure correlations in solid metal saccharinates. II. Ab initio molecular structures and vibrational spectra of N-substituted saccharins at the HF level

AUTHOR(S): Naumov, Pance; Jovanovski, Gligor; Ohashi, Yuji

CORPORATE SOURCE: Institute of Chemistry, Faculty of Sciences, Sv. Kiril i Metodij University, Skopje, MK-1001, Macedonia

SOURCE: Solid State Sciences--(2002)--4(2), 271-283

CODEN: SSSCFJ; ISSN: 1293-2558

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Ground-state ab initio mol. geometries and vibrational spectra of 24 N-substituted isolated saccharins with small-size B, Br, C, Cl, F, N, O, P or S-groups and the parent mol. are predicted at RHF/6-31G level to examine the mol. structural changes stemming from N-substitution of saccharin (o-sulfobenzimide). Trends in the mol. geometrical parameters of the sulfimide ring and the carbonyl stretching frequency are discussed in relation to the electronic properties of the substituent and the solid state effects. The results are compared with the crystallog. data for N-substituted saccharins and metal saccharinato salts/complexes retrieved from the Cambridge Structural Database. The ability of several theor. methods to describe the substitution/deprotonation of the conjugated CO-NH-SO₂ structure is summarized. Electronic properties of the substituent affect significantly only the immediate C-N and S-N bonds by as much as ± 0.014 Å, while other bonds are relatively less influenced (± 0.004 Å). Combined with the effects of the crystal packing and thermal vibrations, they impose flexibility on the intramol. lengths up to ± 0.02 Å. High correlation ($R = 0.966$) between the theor. $\nu(\text{CO})$ frequencies and C-O distances is predictable for both of these parameters, but is lowered notably in the crystal by both vibrational and solid-state circumstances. From the structural viewpoint, the Nsac-X bonds ($X = \text{B, Br, C, Cl, F, N, O, P, S}$; sac denotes saccharin) behave similarly to the purely covalent Nsac-metal bonds.

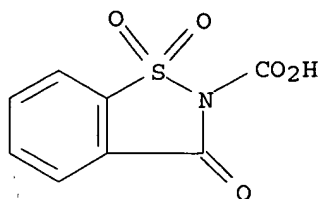
IT 440671-29-4, N-Carboxysaccharin

RL: PRP (Properties)

(mol. structures and vibrational spectra of N-substituted saccharins calculated at HF level)

RN 440671-29-4 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L114 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:708887 CAPLUS

DOCUMENT NUMBER: 123:242068

TITLE: Thermal recording sheets providing durable image

INVENTOR(S): Minami, Toshiaki; Nagai, Tomoaki; Hamada, Kaoru;

PATENT ASSIGNEE(S): Nippon Seishi Kk, Japan; Yoshitomi Pharmaceutical Industries, Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

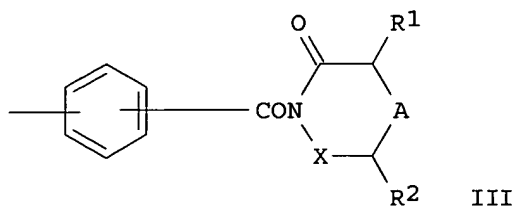
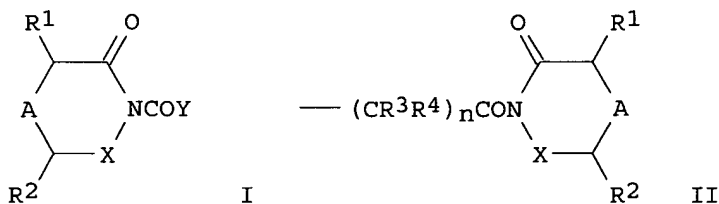
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07108757	A2	19950425	JP 1993-255593	19931013
JP 2838873	B2	19981216		
PRIORITY APPLN. INFO.:			JP 1993-255593	19931013

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AB The title recording sheets comprise a support coated with a heat-sensitive

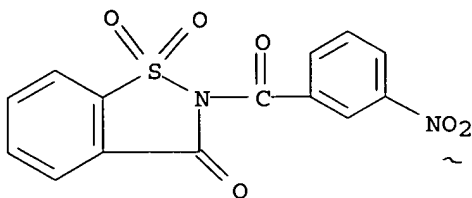
layer containing a basic colorless dye, an organic color developer, and ≥ 1 compound I [R1, R2 = H, alkyl, R1 and R2 may form a ring; A = single or double bond; X = C:O, SO₂; Y = (substituted) alkyl, arylalkyl, (substituted) aryl, II, III (R3, R4 = H, alkyl; n = 0-8)]. A thermal recording sheet using 3-(N-ethyl-N-isoamylamino)-6-methyl-7-anilino-fluoran and N,N'-isophthaloylbisaccharin for the color developer gave high d. images with good resistance to heat, water, and oils.

IT 168090-12-8

RL: DEV (Device component use); USES (Uses)
(thermal recording material containing succinimide derivative)

RN 168090-12-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(3-nitrobenzoyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)

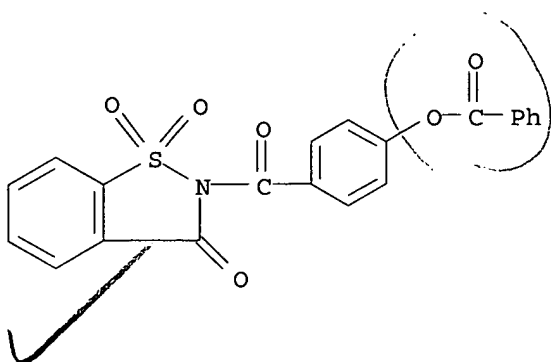


IT 168090-07-1P

RL: DEV (Device component use); IMF (Industrial manufacture); PREP
(Preparation); USES (Uses)
(thermal recording material containing succinimide derivative)

RN 168090-07-1 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-[4-(benzoyloxy)benzoyl]-, 1,1-dioxide
(9CI) (CA INDEX NAME)



L114 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:122256 CAPLUS

DOCUMENT NUMBER: 114:122256

TITLE: Heterocycles by intramolecular aza-Wittig reactions of
iminophosphoranes obtained from 2-azidobenzoyl- and
2-azidobenzylidene derivatives

AUTHOR(S): Luheshi, Abdul Bassett N.; Salem, Salem M.; Smalley,
Robert K.; Kennewell, Peter D.; Westwood, Robert

CORPORATE SOURCE: Dep. Chem. Appl. Chem., Univ. Salford, Salford, M5
4WT, UK

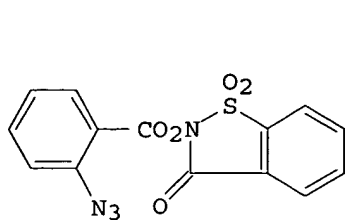
SOURCE: Tetrahedron Letters (1990), 31(45), 6561-4
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

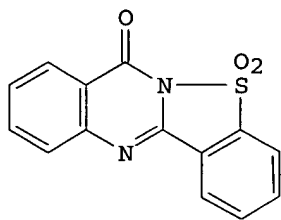
LANGUAGE: English

OTHER SOURCE(S) :
GI

CASREACT 114:122256



I



II

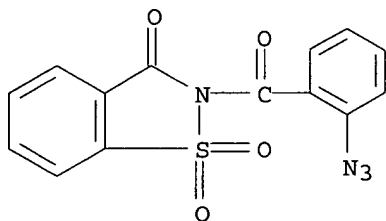
AB The use of iminophosphoranes in intramol. aza-Wittig reactions to prepare pyrrolo[1,2-a]benzimidazoles, fused quinazolinones, quinolines, and an isoindolo[1,3,4]benzotriazepinone is reported. Thus, (azidobenzoyl)oxobenzoisothiazoline dioxide I was treated with (EtO)3P to give 88% oxobenzoisothiazoloquinazoline dioxide II.

IT 132416-64-9P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(generation of iminophosphorane and intramol. aza-Wittig reaction of)

RN 132416-64-9 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-azidobenzoyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:424260 CAPLUS

DOCUMENT NUMBER: 105:24260

TITLE: Acylated saccharin derivatives.

INVENTOR(S): Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann;
Kuehle, Engelbert; Fuehrer, Wolfgang; Haenssler, Gerd;
Brandes, Wilhelm; Reinecke, Paul Dr

PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.

SOURCE: Ger. Offen., 35 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

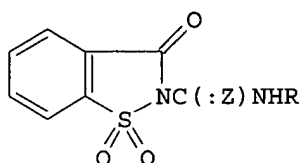
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3433391	A1	19860320	DE 1984-3433391	19840912
EP 177740	A1	19860416	EP 1985-110995	19850831
EP 177740	B1	19880928		

R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE

AT 37543	E	19881015	AT 1985-110995	19850831
US 4713389	A	19871215	US 1985-774271	19850910
DK 8504133	A	19860313	DK 1985-4133	19850911
ES 546877	A1	19860316	ES 1985-546877	19850911
AU 8547384	A1	19860320	AU 1985-47384	19850911
AU 571734	B2	19880421		
JP 61068477	A2	19860408	JP 1985-199614	19850911
ZA 8506951	A	19860430	ZA 1985-6951	19850911
BR 8504387	A	19860708	BR 1985-4387	19850911
DD 239516	A5	19861001	DD 1985-280522	19850911
HU 39966	A2	19861128	HU 1985-3430	19850911
PRIORITY APPLN. INFO.:			DE 1984-3433391	A 19840912
			EP 1985-110995	A 19850831

OTHER SOURCE(S): CASREACT 105:24260

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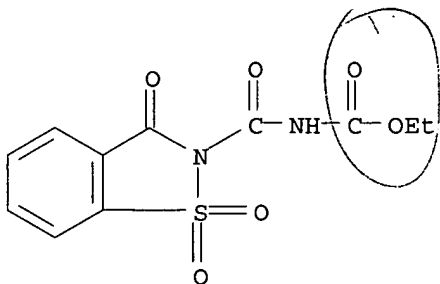
AB Title compds. I [R = COR1, SO2OR2; R1 = alkyl, haloalkyl, alkoxy, (un)substituted aryl, etc.; R2 = alkyl, phenyl; Z = O, S] are prepared as bactericides and fungicides. Thus, ethoxycarbonyl isocyanate reacted with saccharin in Me2CO, in the presence of Et3N, to give I (R = EtO2C, Z = O) (II). II gave better protection of rice against Pyricularia oryzae than did the standard 3-allyloxy-1,2-benzisothiazole 1,1-dioxide.

IT 102823-02-9P 102823-03-0P 102823-04-1P
 102823-05-2P 102823-06-3P 102823-07-4P
 102823-08-5P 102823-09-6P 102823-11-0P
 102823-12-1P 102823-13-2P 102823-14-3P
 102823-15-4P 102823-16-5P 102823-17-6P
 102823-18-7P 102823-19-8P 102823-20-1P
 102823-21-2P 102823-22-3P 102823-24-5P
 102823-25-6P 102823-26-7P 102823-27-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as bactericide and fungicide)

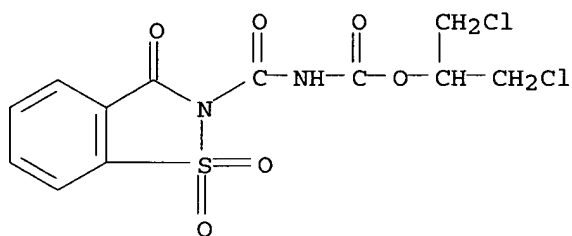
RN 102823-02-9 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



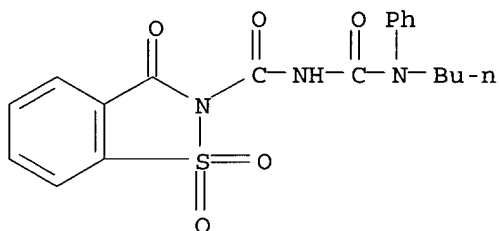
RN 102823-03-0 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chloro-1-(chloromethyl)ethyl ester (9CI) (CA INDEX NAME)



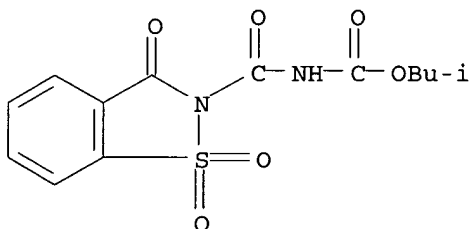
RN 102823-04-1 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(butylphenylamino)carbonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



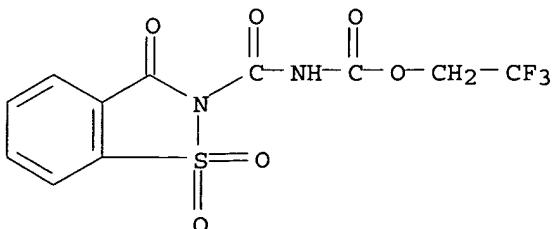
RN 102823-05-2 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



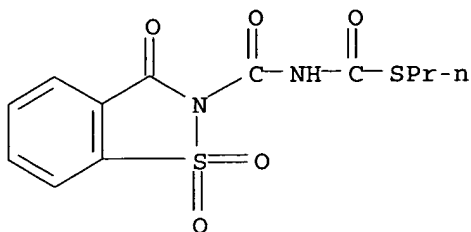
RN 102823-06-3 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



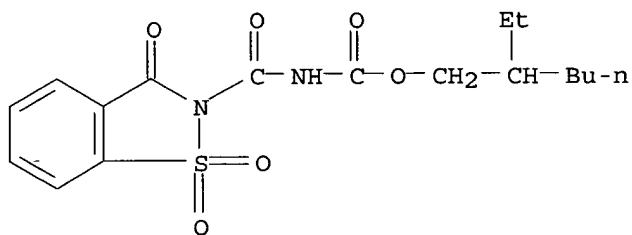
RN 102823-07-4 CAPLUS

CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-propyl ester (9CI) (CA INDEX NAME)



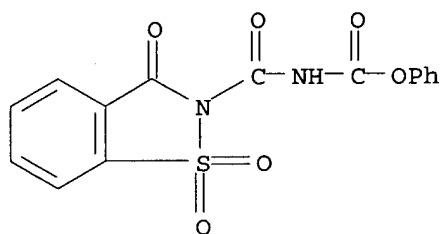
RN 102823-08-5 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-ethylhexyl ester (9CI) (CA INDEX NAME)



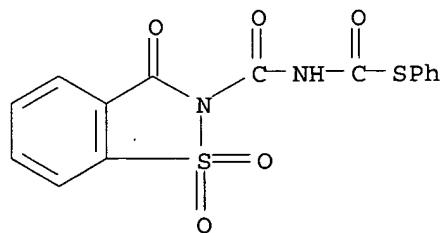
RN 102823-09-6 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



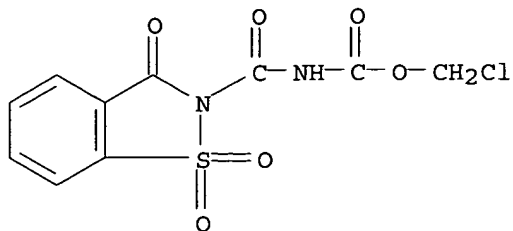
RN 102823-11-0 CAPLUS

CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-phenyl ester (9CI) (CA INDEX NAME)



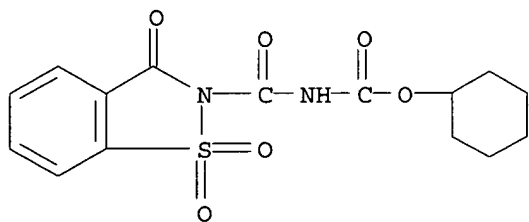
RN 102823-12-1 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, chloromethyl ester (9CI) (CA INDEX NAME)



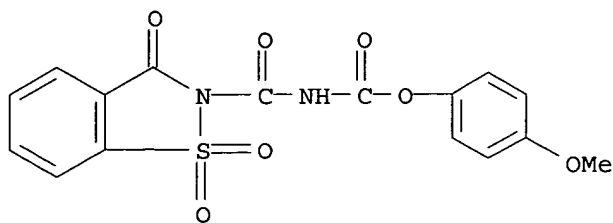
RN 102823-13-2 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)



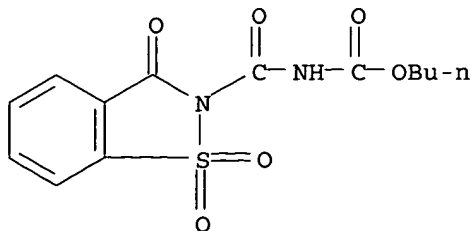
RN 102823-14-3 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 4-methoxyphenyl ester (9CI) (CA INDEX NAME)



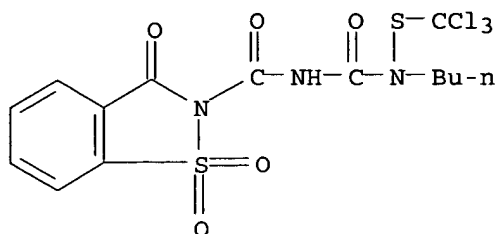
RN 102823-15-4 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, butyl ester (9CI) (CA INDEX NAME)



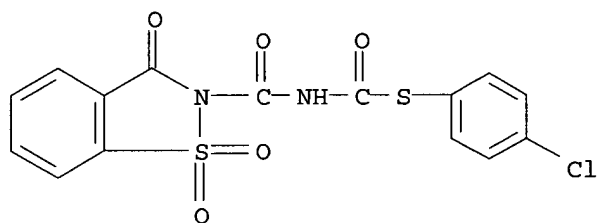
RN 102823-16-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[[butyl[(trichloromethyl)thio]amino]carbonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



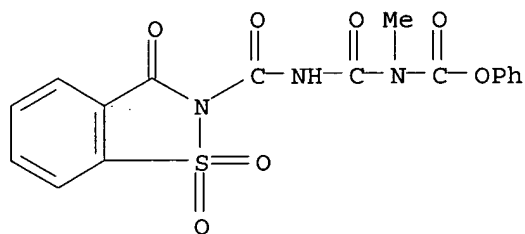
RN 102823-17-6 CAPLUS

CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-(4-chlorophenyl) ester (9CI) (CA INDEX NAME)



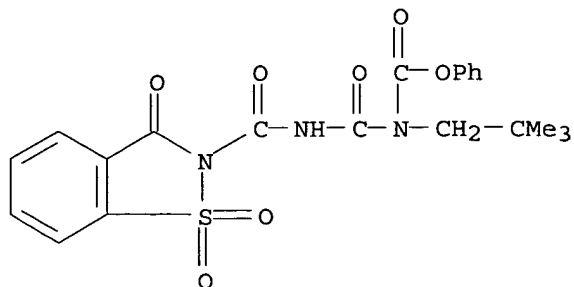
RN 102823-18-7 CAPLUS

CN Carbamic acid, [[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]methyl-, phenyl ester (9CI) (CA INDEX NAME)



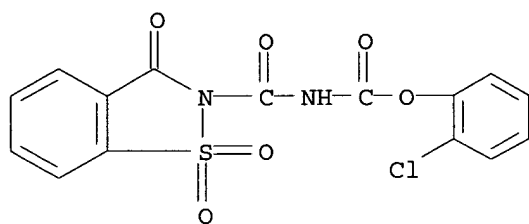
RN 102823-19-8 CAPLUS

CN Carbamic acid, (2,2-dimethylpropyl) [[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



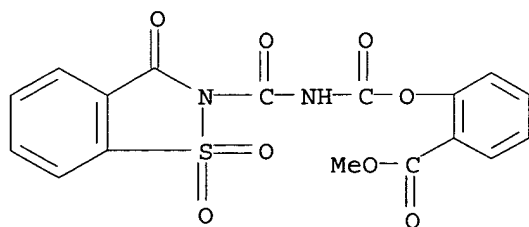
RN 102823-20-1 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chlorophenyl ester (9CI) (CA INDEX NAME)



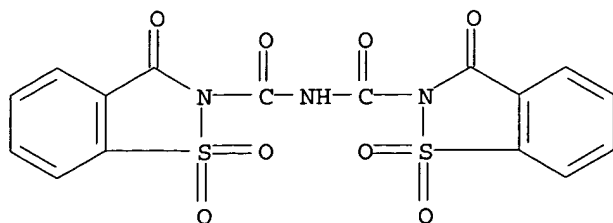
RN 102823-21-2 CAPLUS

CN Benzoic acid, 2-[[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



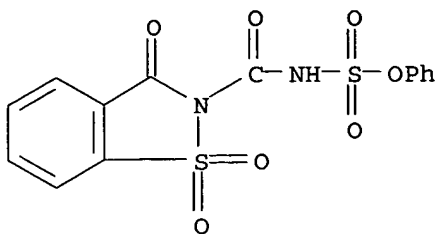
RN 102823-22-3 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



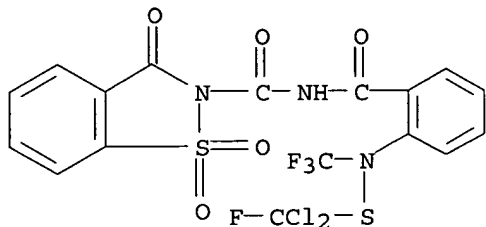
RN 102823-24-5 CAPLUS

CN Sulfamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



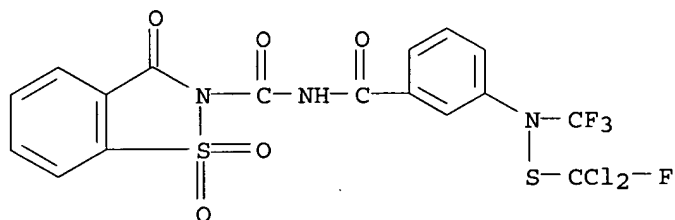
RN 102823-25-6 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[2-[[[(dichlorofluoromethyl)thio](trifluoromethyl)amino]benzoyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



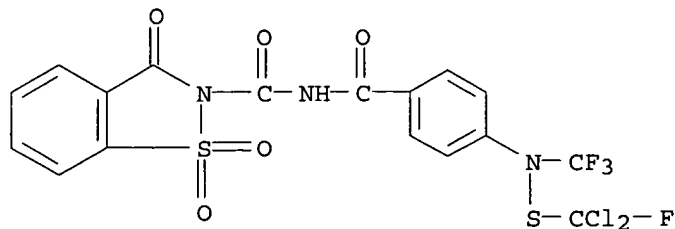
RN 102823-26-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[3-[[[(dichlorofluoromethyl)thio](trifluoromethyl)amino]benzoyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 102823-27-8 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[4-[[[(dichlorofluoromethyl)thio](trifluoromethyl)amino]benzoyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:633737 CAPLUS

DOCUMENT NUMBER: 93:233737

TITLE: Inhibition of elastase and other serine proteases by heterocyclic acylating agents

AUTHOR(S): Zimmerman, Morris; Morman, Harriet; Mulvey, Dennis; Jones, Howard; Frankshun, Robert; Ashe, Bonnie M.

CORPORATE SOURCE: Merck, Sharp Dohme Res. Lab., Rahway, NJ, 07065, USA

SOURCE: Journal of Biological Chemistry (1980), 255(20), 9848-51

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

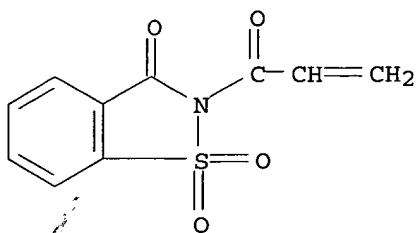
LANGUAGE: English

AB The N-acyl saccharins and N-acyl benzoisothiazolinones form a new class of acylating inhibitors of the serine proteases with a broad spectrum of activity. However, they are unique in that they are able to differentiate between various serine proteases because of the differential stability of the presumptive acylenzyme formed. Furoyl saccharin was the best studied among this class of inhibitors. Evidence is reported that the amide bond in the heterocyclic ring of this compound is cleaved by porcine pancreatic and human leukocyte elastases and chymotrypsin, forming acylenzymes. Radioisotope studies indicate that the saccharin portion of furoyl saccharin is attached to these enzymes in approx. a 1:1 molar ratio with enzyme, blocking the active site serine. The acyl-elastases thus prepared are unusually stable to hydrolysis, with k_{deacyl} values at neutral pH of 2.3 + 10⁻⁶ s⁻¹ for porcine pancreatic elastase and 1.4 + 10⁻⁶ s for human leukocyte elastase. Trypsin appears to be inhibited by a different mechanism. These data suggest a new approach to the design of specific synthetic protease inhibitors.

IT 41643-17-8

RL: BIOL (Biological study)
(serine proteinase inhibition by)

RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)

L114 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:502315 CAPLUS

DOCUMENT NUMBER: 87:102315

TITLE: Acylsaccharins and acyl-3-oxo-1,2-benzisothiazolines

INVENTOR(S): Mulvey, Dennis; Jones, Howard; Zimmerman, Morris

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Ger. Offen., 41 pp.

CODEN: GWXXBX

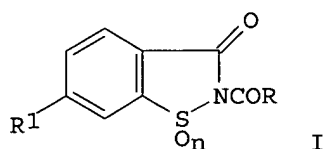
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2636599	A1	19770303	DE 1976-2636599	19760813
DE 2636599	C2	19851024		
US <u>4195023</u>	A	19800325	US 1975-606271	19750820
DK 7603521	A	19770221	DK 1976-3521	19760804
SE 7608748	A	19770221	SE 1976-8748	19760804
SE 434946	B	19840827		
SE 434946	C	19841220		
NL 7608676	A	19770222	NL 1976-8676	19760804
FR 2321288	A1	19770318	FR 1976-25077	19760818
FR 2321288	B1	19781222		
CH 627461	A	19820115	CH 1976-10565	19760819
JP 52025769	A2	19770225	JP 1976-98836	19760820
CH 625232	A	19810915	CH 1980-4357	19800605
PRIORITY APPLN. INFO.:			US 1975-606271	A 19750820
			CH 1976-10565	A 19760819

GI



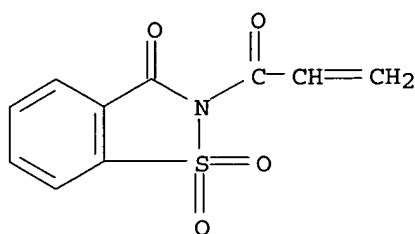
AB The title compds. I (R = 2-furyl, R1 = CO2Me, R = 2-furyl, CHET2, R1 = H, n = 2; R = 2-FC6H4, 2-thienyl, Ph, 3-MeOC6H4, Me3C, CHET2, cyclopropyl, vinyl, 2-furyl, 4-sulfo-2-furyl, R1 = H, n = 0), useful as elastase inhibitors and thus in treating emphysema, were prepared by acylating the corresponding saccharins or oxobenzisothiazolines with RCOCl, or by cleaving (2-ClCOC6H4S)2 with Cl2 and cyclizing the resultant 2-ClCOC6H4SCl with 2-furamide or Et2CHCONH2. I had inhibitory doses⁵⁰ of 0.2-2.5 µg/mL against elastase. I (R = 2-furyl, R1 = H, n = 0) gave 74% inhibition of emphysema at 3 mg in hamsters.

IT **41643-17-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and elastase-inhibiting activity of)

RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)

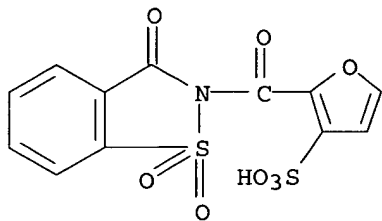


IT **63633-87-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 63633-87-4 CAPLUS

CN 3-Furansulfonic acid, 2-[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]- (9CI) (CA INDEX NAME)



L114 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1975:140119 CAPLUS

DOCUMENT NUMBER: 82:140119

TITLE: 2-Substituted-1,2-benzisothiazoline-3-oxo-1,1-dioxide

INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi; Ito, Hideo

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 6 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49020779	B4	19740527	JP 1970-119663	19701228
PRIORITY APPLN. INFO.:			JP 1970-119663	A 19701228

GI For diagram(s), see printed CA Issue.

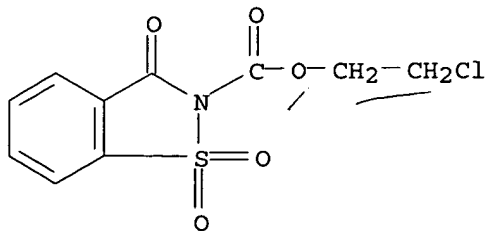
AB Benzoisothiazolinones I (R1 = Me, ClCH2CH2, Me2CH, Ph, 4-BrC6H4, 4-ClC6H4, 4-MeC6H4, 4-O2NC6H4), useful as bactericides, were prepared by alkoxyacylation of saccharin (II) by R1O2CCl with NaCO3 or NaHCO3. Thus, 18.3 g II in MeCN was stirred with ClCH2CH2O2Cl and 8.4 g NaHCO3 2 hr at 40° to give 81% I (R1 = ClCH2CH2).

IT 54952-63-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of bactericidal)

RN 54952-63-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, 2-chloroethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)

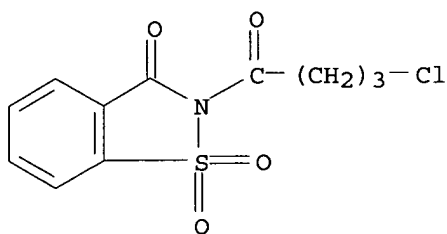


L114 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

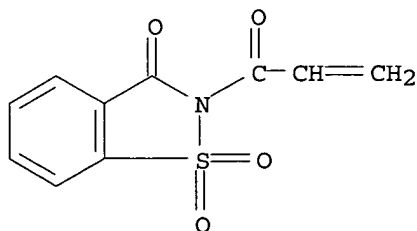
ACCESSION NUMBER: 1973:144282 CAPLUS
 DOCUMENT NUMBER: 78:144282
 TITLE: Fungicides for agricultural use
 INVENTOR(S): Chiyomaru, Isao; Kawada, Seigo; Takita, Kiyoshi
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47043332	B4	19721219	JP 1971-31822	19710512
JP 51016497		19760000	JP	

AB Benzisothiazolone dioxide derivs. such as 2-(1-oxopropyl)-1,2-benzisothiazol-3-one 1,1-dioxide (I) [37952-89-9], 2-(1-oxopentyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-31-3], and 2-(1-oxooctyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-32-4] were used as fungicides for plants. These fungicides were effective against Piricularia oryzae, Glomerella cingulata and Phytophthora infestans. I(1.25 kg/10 are) was effective for rice blight.
 IT 41643-15-6 41643-17-8
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (fungicides)
 RN 41643-15-6 CAPLUS
 CN 1,2-Benzisothiazol-3(2H)-one, 2-(4-chloro-1-oxobutyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)

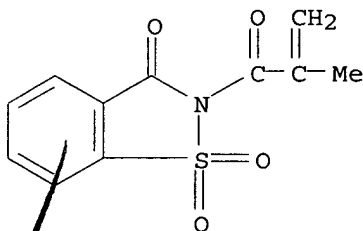


RN 41643-17-8 CAPLUS
 CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



✓ L114 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1973:124224 CAPLUS
 DOCUMENT NUMBER: 78:124224
 TITLE: Syntheses of imide derivatives
 AUTHOR(S): Kato, Kiyoshi; Yoshida, Matayasu; Ishikawa, Yoichiro
 CORPORATE SOURCE: Gov. Ind. Res. Inst., Osaka, Japan
 SOURCE: Yuki Gosei Kagaku Kyokaishi (1972), 30(10), 897-9
 CODEN: YGKKA; ISSN: 0037-9980
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB 2-cis- Δ^4 -Tetrahydrophthalimidoethyl (70.2%), phthalimidomethyl (85.7%), 2-phthalimidoethyl (64.4%), and 2-naphthalimidoethyl (100%) acrylates, 2-cis- Δ^4 -tetrahydrophthalimidoethyl (72.6%), 2-naphthalimidoethyl (100%), and 2-o-sulfobenzoimidoethyl methacrylates (74.3%), N-acryloylphthalimide (72.1%), N-methacryloyl succinimide (93.4%), N-methacryloylphthalimide (94.4%) and N-methacryloyl-o-sulfobenzoimide (93.6%) were prepared by the condensation of acryloyl chloride or methacryloyl chloride with the imidoalc. or imide and NEt_3 at 20-40° in MeCN, Me_2CO , dioxane, benzene, or DMF. 2-Phthalimidoethyl methacrylate (93.4%) was prepared by esterification of methacrylic acid with N-(2-hydroxyethyl)phthalimide in the presence of p-MeC₆H₄SO₃H and p-MeC₆H₄SO₃H and p-(HO)C₆H₄ in benzene.
 IT 40581-15-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 40581-15-5 CAPLUS
 CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-methyl-1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



✓ L114 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:564667 CAPLUS
 DOCUMENT NUMBER: 77:164667
 TITLE: 2-Substituted 1,2-benzisothiazolin-3-one 1,1-dioxides
 INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47020158	B4	19720927	JP 1971-10094	19710227

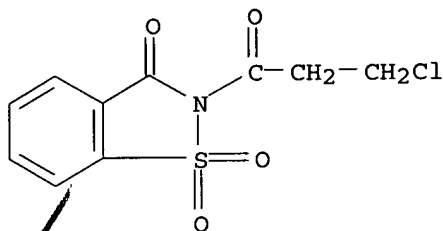
GI For diagram(s), see printed CA Issue.

AB The title compds. (I), antibacterial and antifungal for plants, were prepared by treating saccharin (II) with chloroformates. Thus, II was treated with ClCOEt in C₆H₆ in the presence of pyridine to give 92.1 I (R = Et). I (R = Me; (CH₂)₂Cl, iso-Pr, Ph; p-MeC₆H₄) were similarly prepared

IT **37952-91-3P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 37952-91-3 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(3-chloro-1-oxopropyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



✓ L114 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:14533 CAPLUS

DOCUMENT NUMBER: 76:14533

TITLE: 2-Carbamoyl-1,2-benzisothiazolin-3-one 1,1-dioxides

INVENTOR(S): Mine, Seizo; Shioyama, Itaru

PATENT ASSIGNEE(S): Japan Agricultural Chemicals and Insecticides Co., Ltd.

SOURCE: Jpn. Tokkyo Koho, 6 pp.
 CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46036613	B4	19711027	JP	19691203

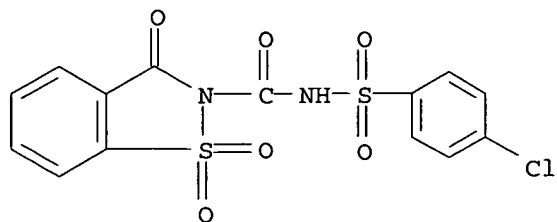
GI For diagram(s), see printed CA Issue.

AB I, useful as a fungicide for phytopathogenic fungi, was prepared Thus, 2-chlorocarbonylsaccharine was gradually added to a solution of PhCH₂NH₂ in dioxane and the mixture stirred 2 hr to give 71% I (R₁ = PhCH₂, R₂ = H). Similarly prepared were 65 more I.

IT **28946-22-7P 28946-23-8P 28946-24-9P**
35131-57-8P 35131-58-9P 35131-59-0P
35131-60-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

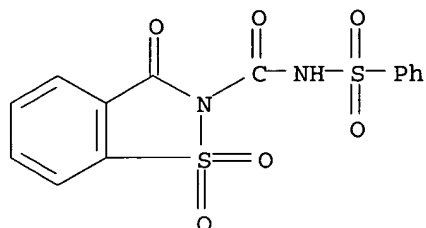
RN 28946-22-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



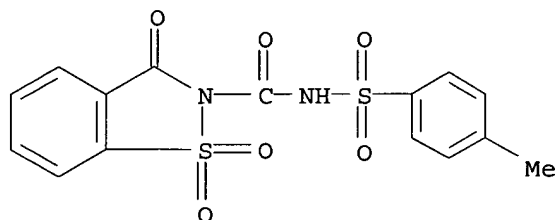
RN 28946-23-8 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



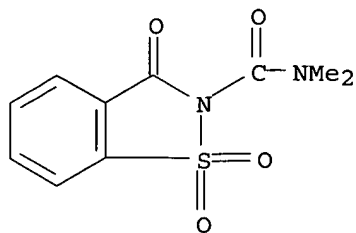
RN 28946-24-9 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



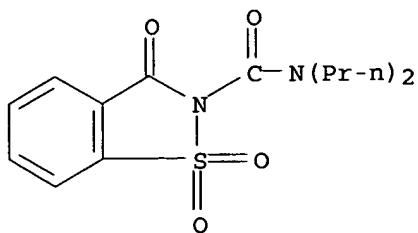
RN 35131-57-8 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dimethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

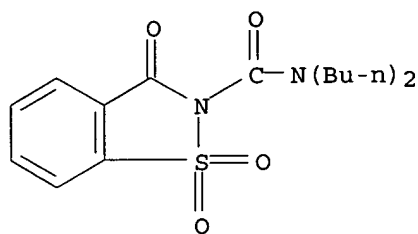


RN 35131-58-9 CAPLUS

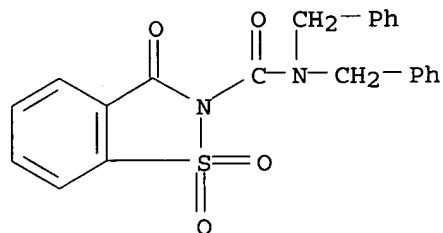
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N,N-dipropyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 35131-59-0 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dibutyl-3-oxo-, 1,1-dioxide
(9CI) (CA INDEX NAME)

RN 35131-60-3 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N,N-bis(phenylmethyl)-,
1,1-dioxide (9CI) (CA INDEX NAME)

L114 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:425448 CAPLUS

DOCUMENT NUMBER: 73:25448

TITLE: Fungicidal 2-(ar)alkylcarbamoylsaccharins

INVENTOR(S): Shioyama, Osamu; Mine, Seizo; Murata, Kikuzo

PATENT ASSIGNEE(S): Japan Agricultural Chemicals Co., Ltd.

SOURCE: Ger. Offen., 38 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1953422	A	19700514	DE 1969-1953422	19691023
DE 1953422	B2	19740801		

DE 1953422	C3	19750327		
JP 48040734	B4	19731203	JP 1968-77381	19681025
GB 1278111	A	19720614	GB 1969-1278111	19691021
US 3699228	A	19721017	US 1969-868236	19691021
PRIORITY APPLN. INFO.:			JP 1968-77381	A 19681025
			JP 1969-71023	A 19690909

GI For diagram(s), see printed CA Issue.

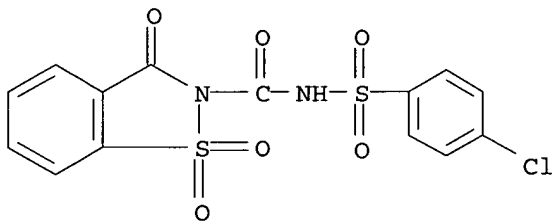
AB The fungicidal title compds. (I) were prepared in 34.8-97.0% yield either by reaction of the corresponding saccharin with RNCO in the presence of Et₃N or pyridine or by reaction of the Na salt of saccharin and COCl₂ via the chlorocarbonyl derivative and subsequent reaction with the corresponding amines. Among the 68 compds. prepared were the following I (X, R, and R₁ given): O, Me, H; O, Ph, H; O, CH₂Ph, H; O, CHMePh, H; O, CH₂Ph, 6-Cl; O, Bu, H; O, Pr, H; O, CH₂C₆H₄Me-p, H; O, CH₂CH₂Ph, H; O, C₆H₄Me-p, H; O, Me, 5-MeO; S, CH₂Ph, H. Compns. of fungicides containing I were reported. I had fungicidal activities especially against *Piricularia oryzae*, *Cladosporium cucumerinum*, and *Colletotrichum langenarium*.

IT **28946-22-7P 28946-23-8P 28946-24-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

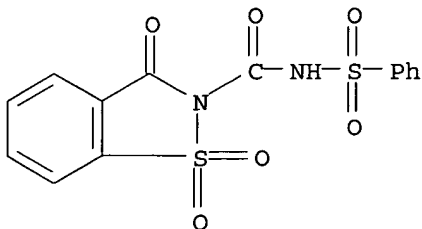
RN 28946-22-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



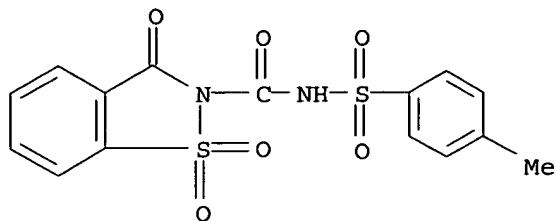
RN 28946-23-8 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 28946-24-9 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1962:41812 CAPLUS

DOCUMENT NUMBER: 56:41812

ORIGINAL REFERENCE NO.: 56:7937i,7938a-b

TITLE: Correlation of chemical structure and taste in the saccharin series

AUTHOR(S): Hamor, Glenn H.

CORPORATE SOURCE: Univ. of S. California, Los Angeles

SOURCE: Science (Washington, DC, United States) (1961), 134, 1416-17

CODEN: SCIEAS; ISSN: 0036-8075

DOCUMENT TYPE: Journal

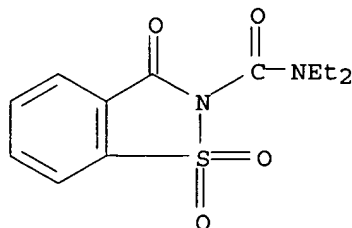
LANGUAGE: Unavailable

AB With approx. 80 saccharin derivs. substitution in the number 2 or 3 position gave tasteless compds. Replacement of the imide H by another chemical group gave, in almost every case, a tasteless compound Both sweet and bitter substances were made tasteless by substitution in the 2 position. Isomerization of the lactam to the lactim form may be necessary for sweet (and bitter) taste. Substitution in the benzene ring of saccharin with the electron-withdrawing nitro group gives a bitter substance. Substitution with an electron-donating group results in a sweet taste. Doubling the saccharin mol. results in a lack of taste. Many saccharin derivs., including saccharin itself, have a bitter taste or a bitter aftertaste. Resonance may play a part in taste.

IT 5443-42-5, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (taste of)

RN 5443-42-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

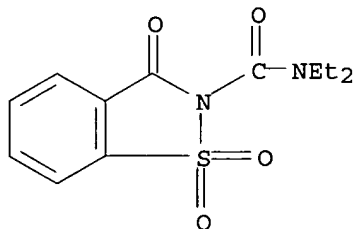
ACCESSION NUMBER: 1961:137433 CAPLUS

DOCUMENT NUMBER: 55:137433

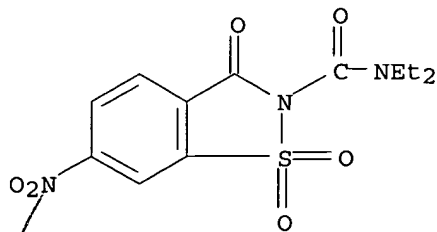
ORIGINAL REFERENCE NO.: 55:25918g-h

TITLE: Saccharin derivatives. IV. Synthesis of

2-(diethylcarbamoyl)- and 2-(diethylthiocarbamoyl)saccharin, and related compounds
 AUTHOR(S): Mehta, Satyendra J.; Hamor, Glenn H.
 CORPORATE SOURCE: Univ. of S. California, Los Angeles
 SOURCE: Journal of Pharmaceutical Sciences (1961), 50, 672-5
 CODEN: JPMSAE; ISSN: 0022-3549
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 55:137433
 AB cf. CA 54, 15362a. The following compds. were prepared by refluxing the appropriate compound with CHCl_3 and $\text{Et}_2\text{NCOC}_2\text{H}_5$ and recrystg. the product from EtOH (m.p. and % yield given): saccharin derivs.: 2-(diethylcarbamoyl), 117-18°, 40; 2-(diethylthiocarbamoyl), 206-7°, 34; 2-(diethylcarbamoyl)-6-nitro, 172-3°, 73; and 2-(carbethoxy), 136°, 65; 1,2-benzisothiazole 1,1-dioxide derivs.: 3-diethylamino, 206-7°, 46.9; 3-diethylamino-6-nitro, 256-7° (Me_2CO), 67; and 3-(dimethylamino), 273-4°, 9.
 IT **5443-42-5**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide **108676-51-3**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide (preparation of)
 RN 5443-42-5 CAPLUS
 CN 1,2-Benzisothiazoline-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 108676-51-3 CAPLUS
 CN 2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide (6CI) (CA INDEX NAME)



L114 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1961:27961 CAPLUS
 DOCUMENT NUMBER: 55:27961
 ORIGINAL REFERENCE NO.: 55:5532b-f
 TITLE: Sulfamoyl derivatives of certain saccharins
 INVENTOR(S): Novello, Frederick C.

PATENT ASSIGNEE(S): Merck & Co., Inc.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

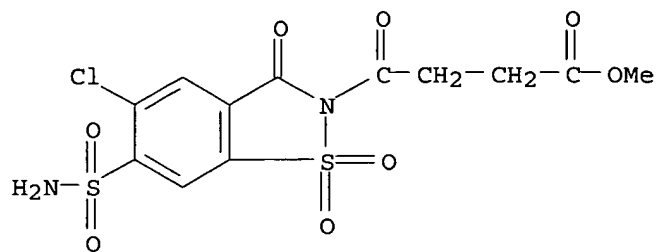
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2957883		19601025	US	
DE 1165033			DE	
FR 1326309			FR	
GB 887711			GB	

AB A series of the title compds., useful as diuretics, was prepared via conventional reactions. Thus, 31.8 g. m-chlorotoluene was added dropwise to 165 ml. chlorosulfonic acid at 0°, the reaction mixture heated 3 hrs. at 150-60° and cooled, and the product precipitated over ice and added portion-wise to 150 ml. 28% NH4OH at 0°. This mixture was heated 2 hrs. at 100° and cooled and the 5-chloro-2,4-disulfamoyl-toluene, m. 256-7° (from aqueous EtOH), collected. Oxidation of this product with alkaline KMnO4 at 100° gave 5-chloro-2,4-disulfamoylbenzoic acid, decomposing 200° (from H2O), which was cyclodehydrated in H2SO4 at 25° to give 5-chloro-6-sulfamoylsaccharin (I), decomposing 273-5° (from 50% aqueous EtOH); di-Na salt of I was prepared from NaOEt in EtOH. Similar 5-substituted-6-sulfamoylsaccharins prepared from suitable m-substituted toluenes were (5-substituent given): fluoro, bromo, methyl, butyl, ethoxy, butoxy, and nitro compds. Reduction of the 5-nitro compound gave 5-amino-6-sulfamoylsaccharin. The isomeric 6-chloro-5-sulfamoylsaccharin was prepared from p-chlorotoluene via 4-chlorotoluene-2,5-disulfonyl chloride, 4-chloro-2,5-disulfamoyltoluene, and 4-chloro-2,5-disulfamoylbenzoic acid. Condensation of I with various compds. in the presence of KOEt in HCONMe2 gave derivs. of I. Substitution took place on the N atom (numbered 2) in the ring system (reactants and 2-substituents of 2-substituted-5-chloro-6-sulfamoylsaccharins given): (CH2Br)2, 2-bromoethyl (II); Br(CH2)3Br, 3-bromopropyl; n-C3H7Br, n-C3H7; CH2:CHCH2Br, allyl; PhCH2Br, PhCH2; PhCH2CH2Br, PhCH2CH2; n-C4H9Br, n-C4H9; phenylacetyl bromide, phenylacetyl; methyl succinoyl chloride, 3-carbomethoxypropionyl; and Et bromoacetate, 2-carbethoxymethyl (III). Alkaline hydrolysis of III gave 2-carboxymethyl-5-chloro-6-sulfamoylsaccharin. Reactions of II with alc. solns. of aqueous NaOH, NH3, n-C3H7NH2, and piperidine gave 2-(2-hydroxyethyl)-, 2-(2-aminoethyl), 2-(2-propylaminoethyl)-, and 2-(2-piperidinoethyl)-5-chloro-6-sulfamoylsaccharin, resp. Directions were given for the preparation of tablets.

IT 104095-24-1, 1,2-Benzisothiazoline-2-butyric acid,
 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide
 (preparation of)

RN 104095-24-1 CAPLUS

CN 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide (6CI) (CA INDEX NAME)



Specific structures in application

Shiao 10/713174

12/29/2005

(includes claim 10 + claim 11)

=> file registry

FILE 'REGISTRY' ENTERED AT 14:29:18 ON 29 DEC 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

DICTIONARY FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> d stat que L60

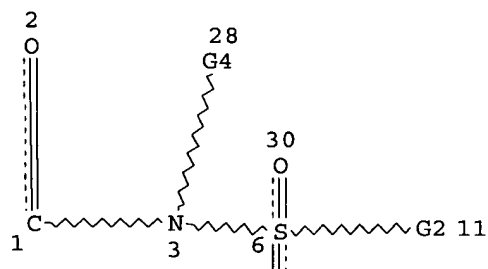
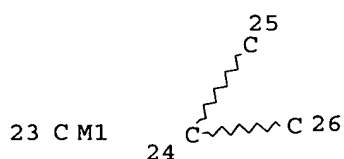
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STR

L3

C 27



Page 1-A

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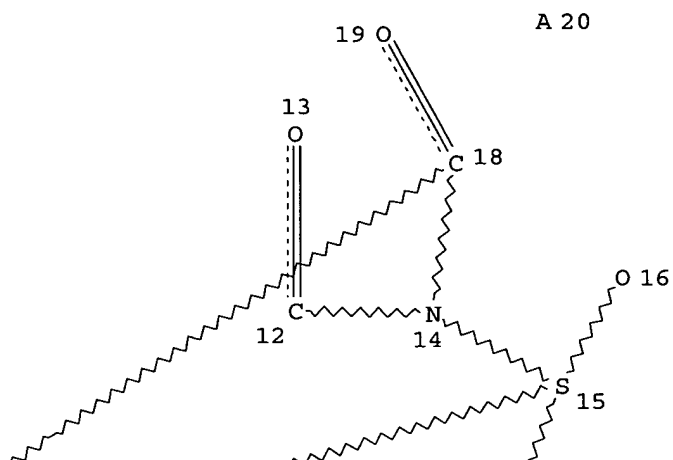
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Page 1-B

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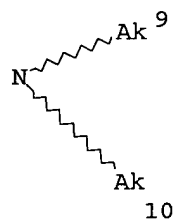
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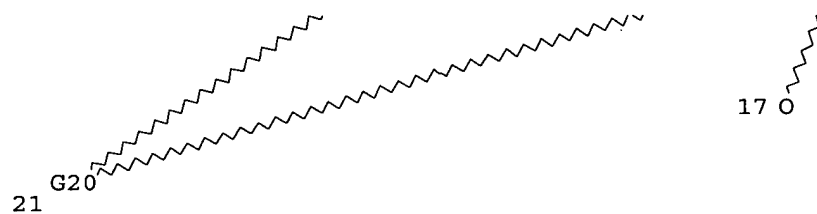


Page 2-A

N 7



Page 2-B



Page 3-A

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VAR G3=1/12

VAR G4=5/23/24/27

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NSPEC     IS C       AT   2
NSPEC     IS C       AT   3
NSPEC     IS C       AT   4
NSPEC     IS C       AT   5
NSPEC     IS C       AT   6
NSPEC     IS R       AT   7
NSPEC     IS C       AT   8
NSPEC     IS C       AT   9
NSPEC     IS C       AT  10
NSPEC     IS C       AT  11
NSPEC     IS C       AT  12
NSPEC     IS C       AT  13
NSPEC     IS R       AT  14
NSPEC     IS R       AT  15
NSPEC     IS C       AT  16
NSPEC     IS C       AT  17
NSPEC     IS R       AT  18
NSPEC     IS C       AT  19
NSPEC     IS R       AT  20
NSPEC     IS R       AT  21
NSPEC     IS C       AT  22
NSPEC     IS C       AT  23
NSPEC     IS C       AT  24
NSPEC     IS C       AT  25
NSPEC     IS C       AT  26
NSPEC     IS C       AT  27
NSPEC     IS C       AT  28
NSPEC     IS C       AT  29
NSPEC     IS C       AT  30
CONNECT   IS E1  RC AT  16
CONNECT   IS E1  RC AT  17
CONNECT   IS E4  RC AT  27
DEFAULT   MLEVEL IS ATOM
MLEVEL    IS CLASS AT   1  2  3  4  6  8  9 10 12 13 16 17 19 23 24 25 26
          27 29 30
GGCAT     IS UNS   AT   5
DEFAULT   ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

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Structure attributes must be viewed using STN Express query preparation.
L11 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L13 STR

X 21

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23

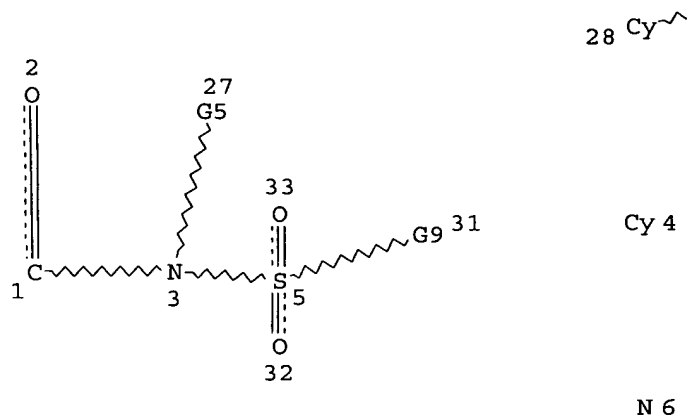
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Page 1-A

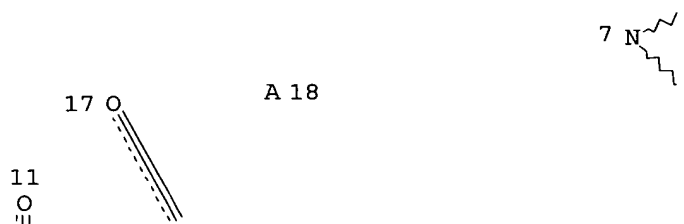
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Page 1-B



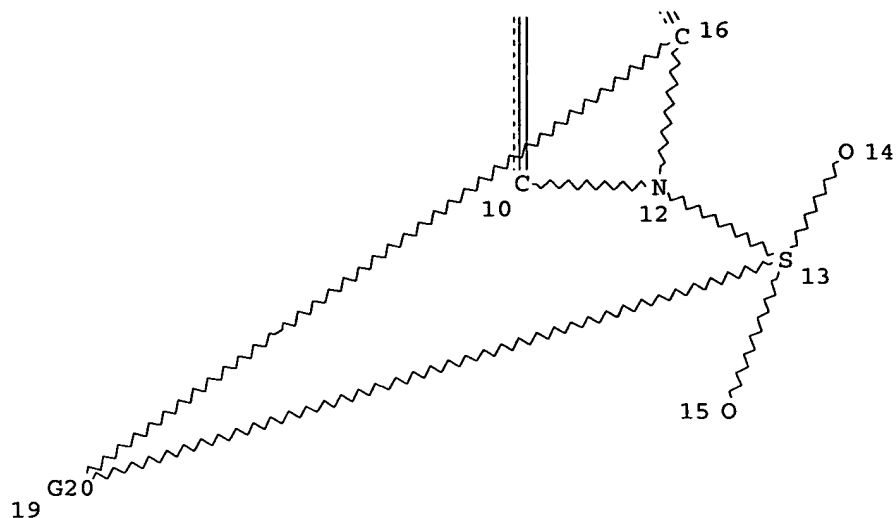
G3 20



Page 2-A



Page 2-B



Page 3-A

VAR G3=1/10

VAR G4=21/23

VAR G5=4/24/25

VAR G6=24/25

VAR G8=21/23/29

VAR G9=4/6/7/24/25/28

REP G20=(1-5) 18-13 18-16

NODE ATTRIBUTES:

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NSPEC	IS C	AT	29
NSPEC	IS C	AT	30

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NSPEC   IS C      AT 31
NSPEC   IS C      AT 32
NSPEC   IS C      AT 33
CONNECT IS E1    RC AT 4
CONNECT IS E1    RC AT 14
CONNECT IS E1    RC AT 15
CONNECT IS E1    RC AT 24
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS AT 1 2 3 5 7 10 11 14 15 17 21 22 23 24 25 29 32
33
GGCAT   IS UNS    AT 4
DEFAULT ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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L26      691 SEA FILE=REGISTRY SUB=L19 SSS FUL L24
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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L30      372 SEA FILE=REGISTRY SUB=L21 SSS FUL L28
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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L46      210 SEA FILE=REGISTRY SUB=L36 SSS FUL L44
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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L60      16 SEA FILE=REGISTRY ABB=ON PLU=ON L50 AND L49

```

=> file caplus

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FILE LAST UPDATED: 28 Dec 2005 (20051228/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d stat que nos L62

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~~L62 7 SEA FILE=CAPLUS ABB=ON PLU=ON L60~~

=> file uspatfull

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 29 Dec 2005 (20051229/PD)

FILE LAST UPDATED: 29 Dec 2005 (20051229/ED)

HIGHEST GRANTED PATENT NUMBER: US6981281

HIGHEST APPLICATION PUBLICATION NUMBER: US2005289677

CA INDEXING IS CURRENT THROUGH 29 Dec 2005 (20051229/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 29 Dec 2005 (20051229/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

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>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or  <<<
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>>> publications, starting in 2001, for the inventions covered in  <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent  <<<
>>> publications.  The publication number, patent kind code, and  <<<
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>>> classifications, or claims, that may potentially change from  <<<
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>>> the earliest to the latest publication.

<<<

This file contains CAS Registry Numbers for easy and accurate
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=> **dup rem L62 L63**

FILE 'CAPLUS' ENTERED AT 14:30:33 ON 29 DEC 2005
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 14:30:33 ON 29 DEC 2005
 CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
 PROCESSING COMPLETED FOR L62
 PROCESSING COMPLETED FOR L63

L65 8 ~~DUP REM L62 L63~~ (2 DUPLICATES REMOVED)
ANSWERS (1-7) FROM FILE CAPLUS
ANSWER '8' FROM FILE USPATFULL

=> d ibib abs hitstr L65 1-8

L65 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
 ACCESSION NUMBER: 2005:453738 CAPLUS
 DOCUMENT NUMBER: 142:478402
 TITLE: N-sulfonylaminocarbonyl containing compounds
 INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.;
 Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G.
 I.; Shah, Rahul R.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S.
 Ser. No. 713,174.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

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US 2005112672	A1	20050526	US 2004-987522	20041112
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PRIORITY APPLN. INFO.:

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 US 2004-987075 A 20041112
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OTHER SOURCE(S): MARPAT 142:478402

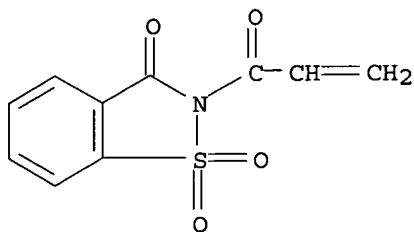
AB Compds. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

IT 41643-17-8P 851778-58-0P 851778-59-1P
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 851778-63-7P 851778-65-9P 851778-69-3P
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RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
 (N-sulfonylaminocarbonyl containing compds.)

RN 41643-17-8 CAPLUS

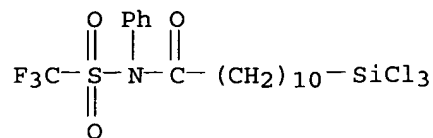
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 (CA INDEX NAME)



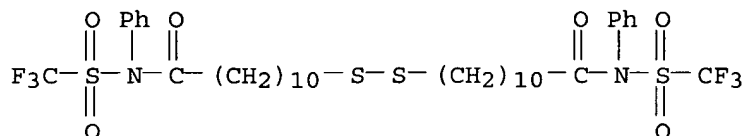
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(9CI) (CA INDEX NAME)



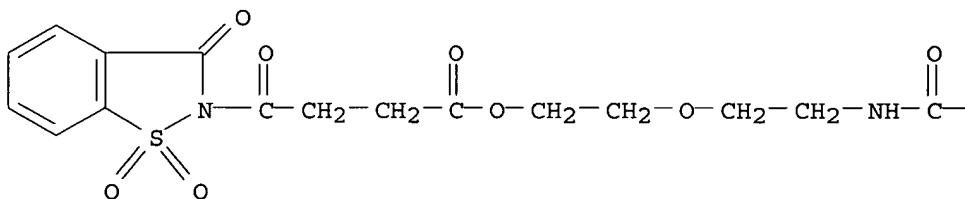
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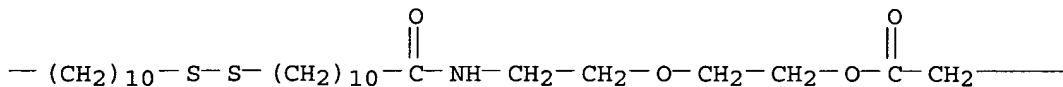
RN 851778-60-4 CAPLUS

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ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

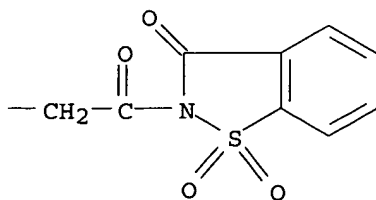
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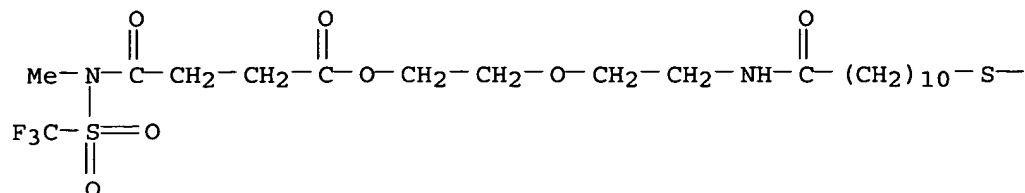
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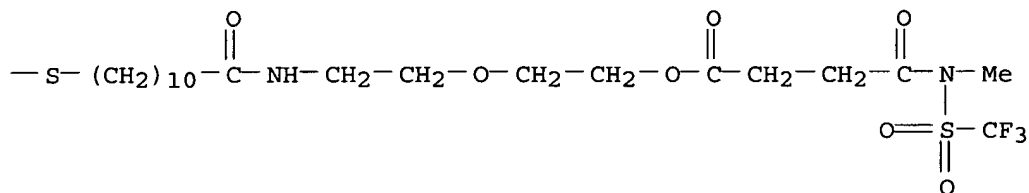
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ester (9CI) (CA INDEX NAME)

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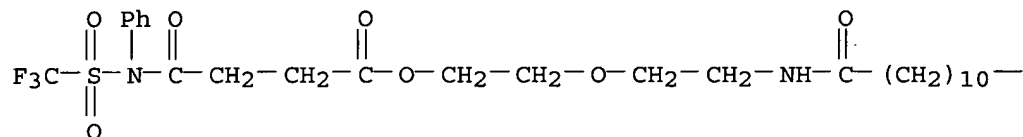
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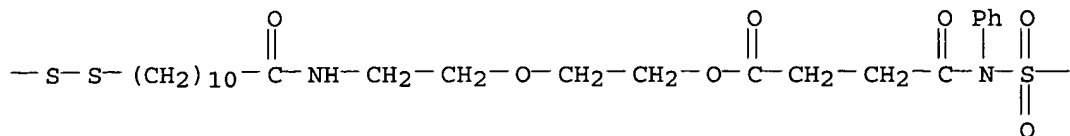
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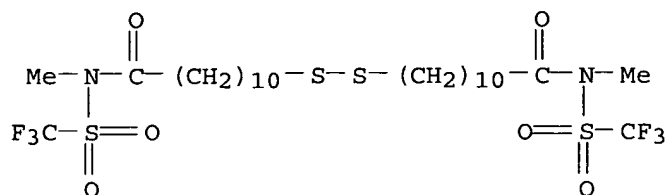


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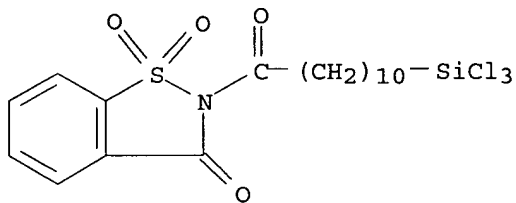
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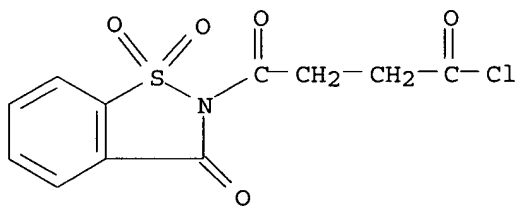
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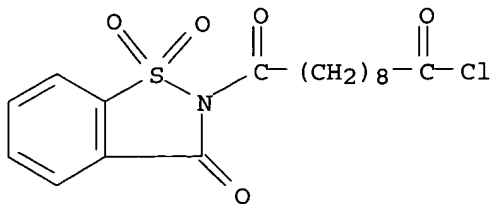
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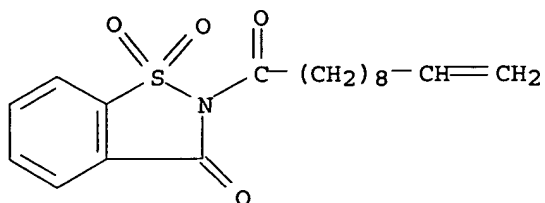
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(9CI) (CA INDEX NAME)



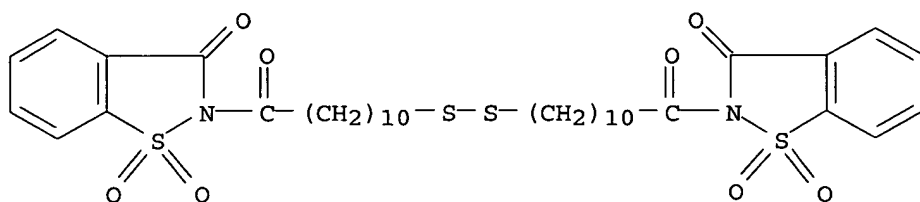
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(CA INDEX NAME)



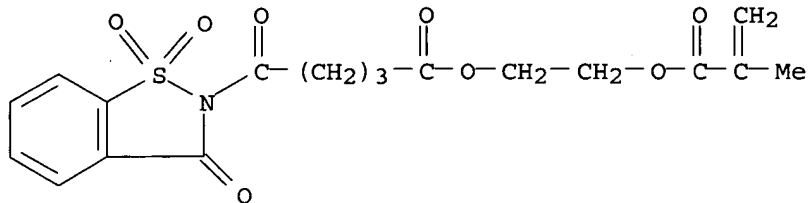
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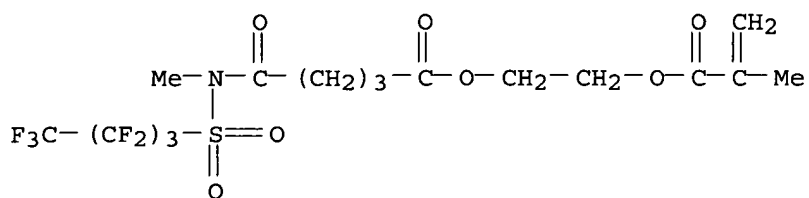
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RN 852233-96-6 CAPLUS

CN Pentanoic acid, 5-[methyl[(nonafluorobutyl)sulfonyl]amino]-5-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



L65 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2005:431463 CAPLUS

DOCUMENT NUMBER: 142:478409

TITLE: N-sulfonylaminocarbonyl containing compounds

INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.;

PATENT ASSIGNEE(S): Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G.; Shah, Rahul
 SOURCE: 3M Innovative Properties Company, USA
 U.S. Pat. Appl. Publ., 37 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107615	A1	20050519	US 2003-713174	20031114
US 2005112672	A1	20050526	US 2004-987522	20041112
WO 2005049590	A2	20050602	WO 2004-US37965	20041112
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PRIORITY APPLN. INFO.: US 2003-713174 A2 20031114
 US 2003-533169P P 20031230

OTHER SOURCE(S): MARPAT 142:478409

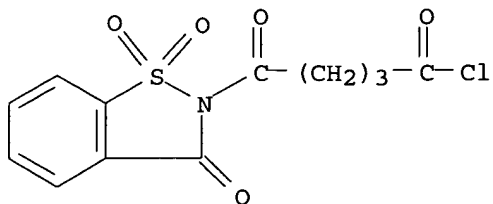
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IT 851778-67-1 851778-68-2 851778-69-3

RL: RCT (Reactant); RACT (Reactant or reagent)
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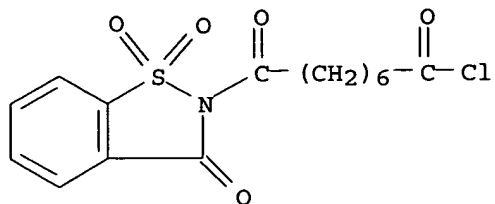
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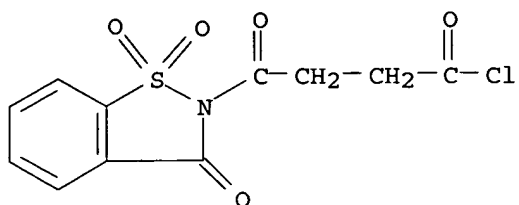


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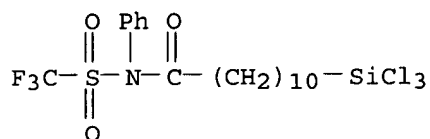
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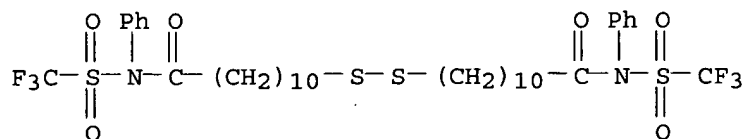
RN 851778-69-3 CAPLUS
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 (9CI) (CA INDEX NAME)



IT 851778-58-0P 851778-59-1P 851778-60-4P
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 (N-sulfonylamino-carbonyl containing compds.)
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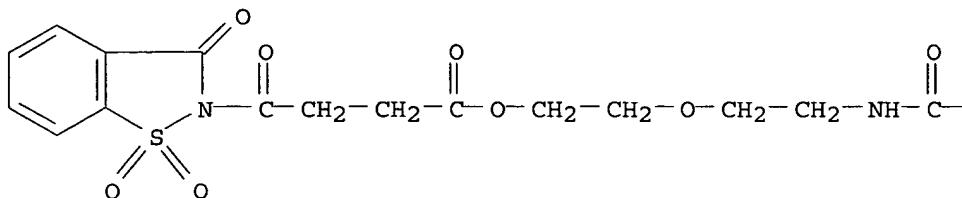


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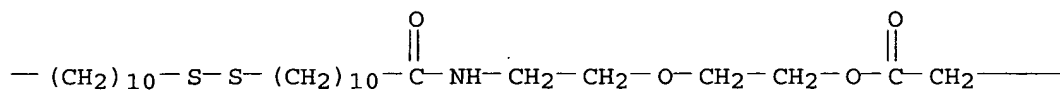


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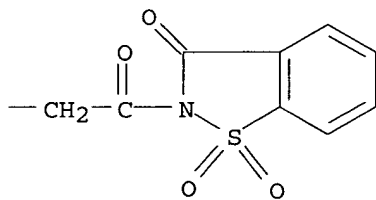
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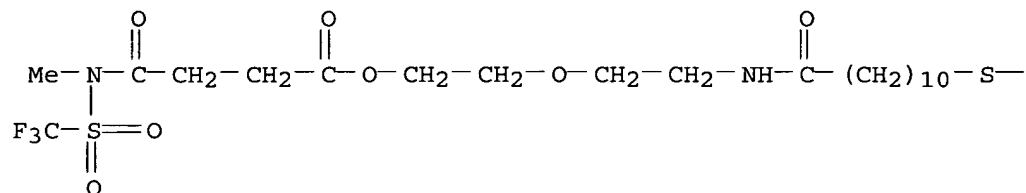


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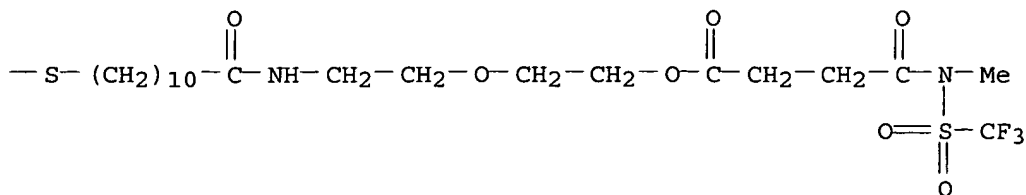


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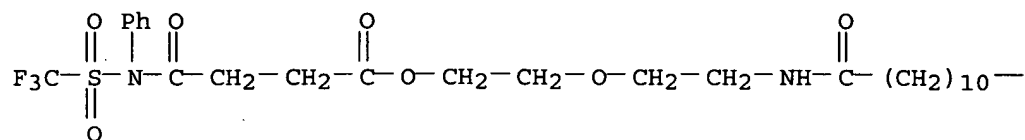


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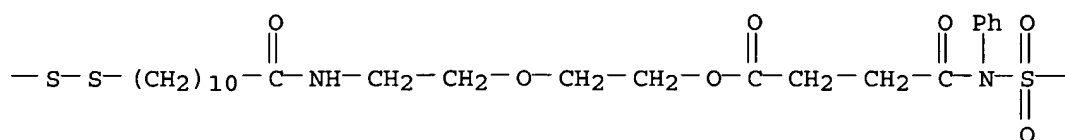


RN 851778-62-6 CAPLUS
 CN Butanoic acid, 4-oxo-4-[phenyl[(trifluoromethyl)sulfonyl]amino]-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazaheptatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



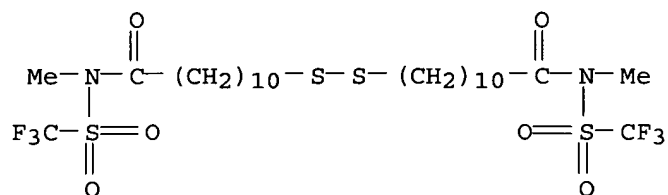
PAGE 1-B



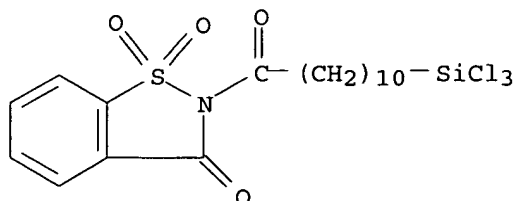
PAGE 1-C



RN 851778-63-7 CAPLUS
 CN Undecanamide, 11,11'-dithiobis[N-methyl-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 851778-65-9 CAPLUS
 CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L65 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:638826 CAPLUS
 DOCUMENT NUMBER: 143:149406
 TITLE: Acoustic sensors and methods
 INVENTOR(S): Baetzold, John P.; Benson, Karl E.; Bommarito, Mario G.; Daniels, Michael P.; Everaerts, Albert I.; Flanigan, Peggy-Jean P.; Free, Benton M.; Kipke, Cary A.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Nguyen, Lang N.; Shah, Rahul; Stark, Peter A.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: PCT Int. Appl., 128 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066092	A2	20050721	WO 2004-US42382	20041217
WO 2005066092	A3	20051013		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2005112672	A1	20050526	US 2004-987522	20041112
US 2005227076	A1	20051013	US 2004-987075	20041112
WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		
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WO 2005075973	A2	20050818	WO 2004-US42662	20041217
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-533169P P 20031230
US 2004-987075 A 20041112
US 2004-987522 A 20041112
US 2003-713174 A2 20031114
US 2003-714053 A2 20031114

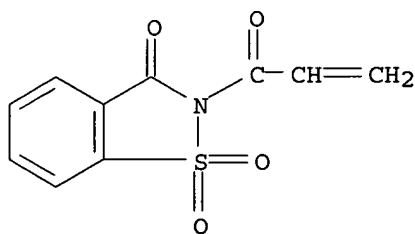
AB This article discloses acoustic sensors, preferably surface acoustic wave sensors, and more preferably shear horizontal surface acoustic wave sensors that include soluble polymers, monomers (optionally mixed with oligomers and/or polymers formed from such monomers), or multifunctional compds., for example, that can function as either waveguide materials, immobilization materials for secondary capture agents (e.g., antibodies), or both.

IT 41643-17-8P 851778-65-9P 852233-93-3P
852233-95-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(acoustic sensors and methods)

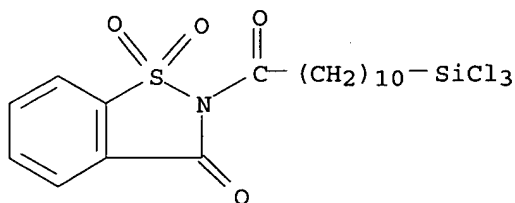
RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)



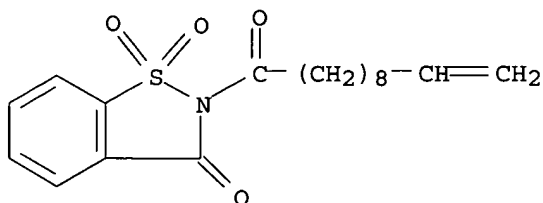
RN 851778-65-9 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

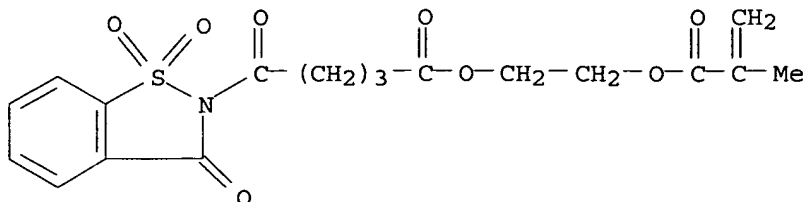


RN 852233-93-3 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-10-undecenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)



RN 852233-95-5 CAPLUS
 CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA
 INDEX NAME)



L65 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:638661 CAPLUS
 DOCUMENT NUMBER: 143:134114
 TITLE: Soluble polymers as amine capture agents and methods
 INVENTOR(S): Benson, Karl E.; Bommarito, G. Marco; Everaerts,
 Albert I.; Lakshmi, Brinda B.; Leir, Charles M.;
 Moore, George G. I.; Shah, Rahul R.; Stark, Peter A.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 7
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005065370	A2	20050721	WO 2004-US43917	20041229
WO 2005065370	A3	20050811		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
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WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM			
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WO 2005075973 A2 20050818 WO 2004-US42662 20041217
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 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-533169P

P 20031230

US 2004-15399

A 20041217

AB The invention relates to soluble polymers and methods for the preparation thereof,

wherein the polymers of the present invention have pendant acylsulfonamide amine-reactive groups that can be used for the capture of amine containing materials. Thus, mixing 154 mL DMF with 4-carboxybenzenesulfonamide (I) 30.0, succinic anhydride 16.41 and triethylamine 33.19 g at 50° under N for 4 h, after cooling to room temperature, combining the resulting mixture with 18.27 mL Ac₂O, stirring for 1 h and working up gave a N-succinimide compound of I which was converted to an acyl chloride using thionyl chloride. Esterifying the succinimide with 2-hydroxyethyl methacrylate and polymerizing the resulting ester with a comonomer gave a polymer having amine-reactive pendant.

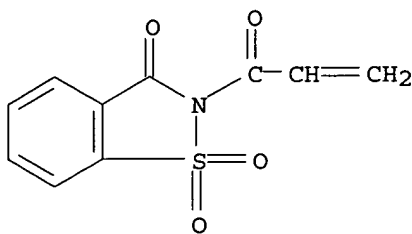
IT 41643-17-8P, 2-Acryloylsaccharin 852233-95-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(manufacture of soluble polymers as amine capture agents and method of use)

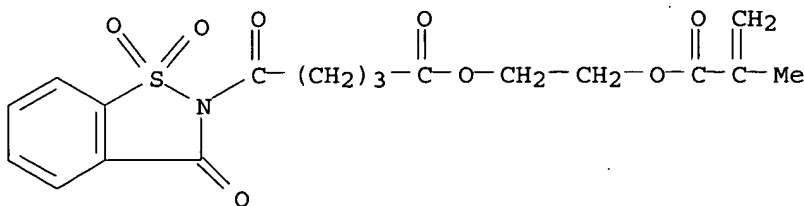
RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



RN 852233-95-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, 8,3-dioxo-,
 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA
 INDEX NAME)



L65 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:633737 CAPLUS

DOCUMENT NUMBER: 93:233737

TITLE: Inhibition of elastase and other serine proteases by heterocyclic acylating agents

AUTHOR(S): Zimmerman, Morris; Morman, Harriet; Mulvey, Dennis; Jones, Howard; Frankshun, Robert; Ashe, Bonnie M.

CORPORATE SOURCE: Merck, Sharp Dohme Res. Lab., Rahway, NJ, 07065, USA

SOURCE: Journal of Biological Chemistry (1980), 255(20), 9848-51

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

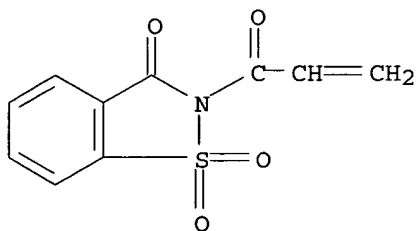
LANGUAGE: English

AB The N-acyl saccharins and N-acyl benzoisothiazolinones form a new class of acylating inhibitors of the serine proteases with a broad spectrum of activity. However, they are unique in that they are able to differentiate between various serine proteases because of the differential stability of the presumptive acylenzyme formed. Furoyl saccharin was the best studied among this class of inhibitors. Evidence is reported that the amide bond in the heterocyclic ring of this compound is cleaved by porcine pancreatic and human leukocyte elastases and chymotrypsin, forming acylenzymes. Radioisotope studies indicate that the saccharin portion of furoyl saccharin is attached to these enzymes in approx. a 1:1 molar ratio with enzyme, blocking the active site serine. The acyl-elastases thus prepared are unusually stable to hydrolysis, with k_{deacyl} values at neutral pH of $2.3 \times 10^{-6} \text{ s}^{-1}$ for porcine pancreatic elastase and $1.4 \times 10^{-6} \text{ s}^{-1}$ for human leukocyte elastase. Trypsin appears to be inhibited by a different mechanism. These data suggest a new approach to the design of specific synthetic protease inhibitors.

IT 41643-17-8

RL: BIOL (Biological study)
(serine proteinase inhibition by)

RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)

L65 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:502315 CAPLUS

DOCUMENT NUMBER: 87:102315

TITLE: Acylsaccharins and acyl-3-oxo-1,2-benzisothiazolines

INVENTOR(S): Mulvey, Dennis; Jones, Howard; Zimmerman, Morris

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Ger. Offen., 41 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

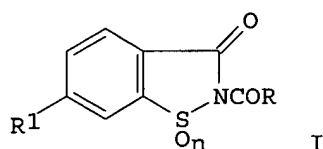
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2636599	A1	19770303	DE 1976-2636599	19760813
DE 2636599	C2	19851024		
US 4195023	A	19800325	US 1975-606271	19750820
DK 7603521	A	19770221	DK 1976-3521	19760804
SE 7608748	A	19770221	SE 1976-8748	19760804
SE 434946	B	19840827		
SE 434946	C	19841220		
NL 7608676	A	19770222	NL 1976-8676	19760804
FR 2321288	A1	19770318	FR 1976-25077	19760818
FR 2321288	B1	19781222		
CH 627461	A	19820115	CH 1976-10565	19760819
JP 52025769	A2	19770225	JP 1976-98836	19760820
CH 625232	A	19810915	CH 1980-4357	19800605
PRIORITY APPLN. INFO.:			US 1975-606271	A 19750820
			CH 1976-10565	A 19760819

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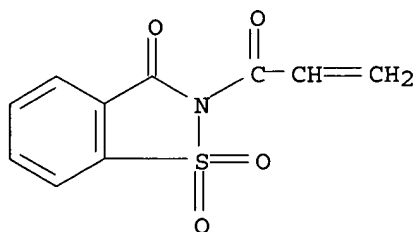
AB The title compds. I (R = 2-furyl, R1 = CO2Me, R = 2-furyl, CHET2, R1 = H, n = 2; R = 2-FC6H4, 2-thienyl, Ph, 3-MeOC6H4, Me3C, CHET2, cyclopropyl, vinyl, 2-furyl, 4-sulfo-2-furyl, R1 = H, n = 0), useful as elastase inhibitors and thus in treating emphysema, were prepared by acylating the corresponding saccharins or oxobenzisothiazolines with RCOCl, or by cleaving (2-ClCOC6H4S)2 with Cl2 and cyclizing the resultant 2-ClCOC6H4SCl with 2-furamide or Et2CHCONH2. I had inhibitory doses⁵⁰ of 0.2-2.5 µg/mL against elastase. I (R = 2-furyl, R1 = H, n = 0) gave 74% inhibition of emphysema at 3 mg in hamsters.

IT 41643-17-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and elastase-inhibiting activity of)

RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)

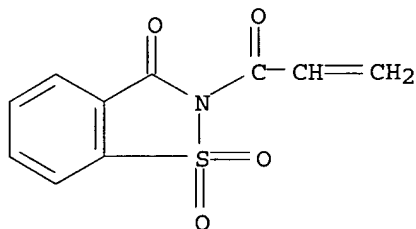


L65 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1973:144282 CAPLUS
 DOCUMENT NUMBER: 78:144282
 TITLE: Fungicides for agricultural use
 INVENTOR(S): Chiyomaru, Isao; Kawada, Seigo; Takita, Kiyoshi
 PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47043332	B4	19721219	JP 1971-31822	19710512
JP 51016497		19760000	JP	

AB Benzisothiazolone dioxide derivs. such as 2-(1-oxopropyl)-1,2-benzisothiazol-3-one 1,1-dioxide (I) [37952-89-9], 2-(1-oxopentyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-31-3], and 2-(1-oxooctyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-32-4] were used as fungicides for plants. These fungicides were effective against Piricularia oryzae, Glomerella cingulata and Phytophthora infestans. I(1.25 kg/10 are) was effective for rice blight.
 IT **41643-17-8**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
 (fungicides)
 RN 41643-17-8 CAPLUS
 CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



L65 ANSWER 8 OF 8 USPATFULL on STN

ACCESSION NUMBER: 80:15015 USPATFULL
 TITLE: 2-(2-Furoyl)1,2-benzisothiazole-3-one, 2-(2-furoyl) saccharin, and 2-(2-thenoyl) saccharin
 INVENTOR(S): Mulvey, Dennis, Milford, NJ, United States
 Jones, Howard, Holmdel, NJ, United States
 Zimmerman, Morris, Watchung, NJ, United States
 PATENT ASSIGNEE(S): Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4195023		19800325
APPLICATION INFO.:	US 1975-606271		19750820 (5)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Rizzo, Nicholas S.
ASSISTANT EXAMINER: Jones, Lisa
LEGAL REPRESENTATIVE: Westlake, Jr., Harry E., Speer, Jr., Raymond M.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 786

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Certain novel acyl saccharins and acyl 3-oxo-1,2-benzisothiazolines, their preparation, pharmaceutical compositions and novel methods of inhibiting elatase and treating emphysema are disclosed.

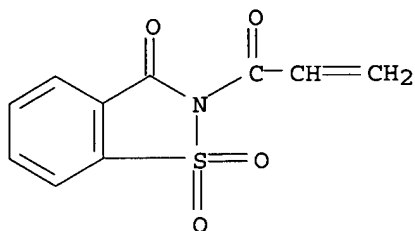
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 41643-17-8P

(preparation and elastase-inhibiting activity of)

RN 41643-17-8 USPATFULL

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI)
(CA INDEX NAME)



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